

DISTRIBUTED SOLAR POWER HARVESTING SYSTEMS

Short Form Catalogue 2013 | 2014











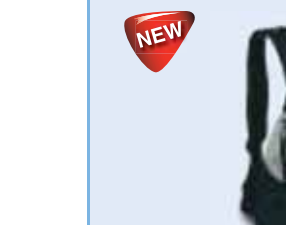


SOLAR DC POWER KITS

Economy Solar home systems are pre-packed kits providing simple power and lighting solutions for applications such as low cost housing and remote rural installations.

	Solar Braai Light	Solar Torch	Solar Camp Light	Solar Desk Lamp
High Quality PV 1000 cycles Lithium Battery Super Bright LED				
Code	BSL-P0807W	BSS-00107	BSS-00207	BSS-00213
Battery Type	Lithium	Lithium	Lithium	Lithium
Battery Life	5hrs full charge	7hrs full charge	24/ 6hrs full charge	5/ 11/ 66hrs full charge
Lamp Power/ Lumen	0.4W / 35lm	0.6W / 50lm	1.2/ 0.6W / 110 / 20lm	0.7W / 45lm
PV Panel	0.5W Polycrystalline	1W Polycrystalline	1W Polycrystalline	1W Polycrystalline
Accessories	PV Panel Holder, Pull cord	Lamp Holder	Carry Holder, cell accessories	Cell accessories
Packing Size	125 x 155 x 80mm	165 x 155 x 170mm	145 x 110 x 185mm	160 x 92 x 145mm
	Solar Junior Light	Solar Lantern	Solar Junior Light 2	Solar Home Light
High Quality PV Rechargeable battery Super Bright LED			 Spare Lamp- BSS-LAMP	 Spare Lamp- BSS-LAMP
Code	BSS-00314LH	BSS-00303-2	BSS-00311S	BSS-00504S
Battery Type	Lithium	Lead Acid	Lithium	Lithium
Battery Life	7hrs full charge	10hrs full charge	18/ 9hrs full charge	72/ 18hrs full charge
Lamp Power/ Lumen	1.5W / 120lm	1.2W / 110lm	0.6W / 50lm	0.5W / 50lm
PV Panel	2.5W Polycrystalline	2.5W Polycrystalline	2.5W Polycrystalline	5W Polycrystalline
Accessories	Cell Accessories	Carry Holder	Cell Accessories	Cell Accessories
Packing Size	430 x 160 x 145mm	205 x 170 x 335mm	270 x 160 x 145mm	315 x 270 x 200mm
	Solar Home Light 2	Solar Home Light 3	Solar Complete Home Kit	Solar Complete Home Kit
High Quality PV 1000 cycles Lithium Battery Super Bright LED	 Spare Lamp- SLL-L1515	 Spare Lamp- SLL-L1515		
Code	BSS-00504LH	BSS-01004LH	JY-30	JY-60
Battery Type	Lithium	Lithium	Lead Acid	Lead Acid
Battery Life	8/ 4hrs full charge	18/ 9hrs full charge	8hrs full charge	8hrs full charge
Lamp Power/ Lumen	1.5W / 120lm	1.5W / 120lm	3W / 290lm	5W / 360lm
PV Panel	5W Polycrystalline	10W Polycrystalline	30W Polycrystalline	60W Polycrystalline
Accessories	Cell Accessories	Cell Accessories	DC fan, Cell accessories	15" TV, DC Fan, cell accessories
Packing Size	450 x 160 x 210mm	450 x 240 x 320mm	Mixed package	Mixed package

SOLAR DC POWER KITS

Specifically designed to provide simple lighting and power solutions to remote areas, these kits can be easily adapted for use in applications such as low cost housing, camping etc.





	Solar Barber Kit	Ecoboxx Qube 50	Ecoboxx Qube 90	Ecoboxx Qube 160
High quality PV Rechargeable battery Super bright LED				 c/w 100 inverter
Code	BARBER KIT	ECOBOXX 50	ECOBOXX 90	ECOBOXX 160
Battery Type	AGM Lithium	AGM Lithium	AGM Lithium	AGM Lithium
Battery Life	Up to 16hrs full charge	Up to 16hrs full charge	Up to 30hrs full charge	Up to 52hrs full charge
Lamp Power/ Lumen	2x2W/ 160lm	2x3W/ 324lm	4x3W/ 324lm	2x3W/ 324lm
PV Panel	2x10W Polycrystalline	5W Polycrystalline	10W Polycrystalline	2x10W Polycrystalline
Accessories	10 in 1 USB phone charger, hair clipper & USB Fan	USB to charge Phone	USB to charge Phone	USB to charge phone
Packing Size	403 x 292 x 355mm	520 x 495 x 393mm	500 x 415 x 373mm	604 x 415 x 373mm
	Solar Travel Light	Portable 4 Lamp Home Kit	Portable 6 Lamp Home Kit	Solar Basic Light
High quality PV Rechargeable battery Super bright LED				
Code	BX-H09	MRD-426	MRD-308	DE-303
Battery Type	Lead Acid	Lithium	Lead Acid	Ni-Mh
Battery Life	80/4hrs full charge	17hrs full charge	10hrs full charge	9hrs full charge
Lamp Power/ Lumen	1W / 380lm	3W / 270lm	3W / 270lm	1W / 120lm
PV Panel	1.7W Polycrystalline	18W Monocrystalline	40W Monocrystalline	5W Polycrystalline
Accessories	Cell accessories, AC Adapter	USB, Cell charger	USB, Cell accessories	3m cable
Packing Size	165 x 175 x 180mm	Mixed package	Mixed package	430 x 170 x 150mm
	Solar Camping Bag	Solar Carry Bag	Solar Cell Phone Charger	
High quality PV Rechargeable battery Super bright LED				
Code	BB-01	CB-03	ES-130	
Battery Type	Li-Ion	Li-Ion	Lithium, 3000mAh	
Battery Life	4hrs full charge	4hrs full charge	Dependant on device	
Lamp Power/ Lumen	-	-	-	
PV Panel	1.2W Amorphous	1.5 Amorphous	0.7W Polycrystalline	
Accessories	AC/DC Charger 5V/800mA Phone connectors 4pcs	AC/DC Charger 5V/800mA Phone connectors 4pcs	iPhone/ iPod, Blackberry, Samsung	

SOLAR LIGHTING KITS





The outdoor lighting has long been associated with solar technology. ACDC provides another new range of Solar lighting. These products include Solar Panels and batteries.

	Security Flood Light	Solar Night Light	Solar Detector Light	Solar Spot Light		
Internal battery rechargeable Lead Acid Super bright LED						
	Code	BSSJ10	BSSJ23	BSSJ03	BSSJ09	
	Battery Type	Lead Acid	Lithium	Lithium	Lead acid	
	Battery Life	8hrs full charge	24hrs full charge	24hrs full charge	8hrs full charge	
	Lamp Power/ Lumen	10W / 550lm	1W / 112lm	3.5W / 378lm	2x2 3W / 500lm	
PV Panel	18W Polycrystalline	0.4W Polycrystalline	1.8W Polycrystalline	10W Polycrystalline		
Accessories	Mounting kit	Infra-Red Motion Detector	Infra-Red Motion Detector	Mounting kit		
Packing Size	280 x 225 x 90mm	120 x 80 x 100mm	180 x 105 x 60mm	300 x 145 x 170mm		
	High Power Solar Light	Solar Security Light	Solar Flood Light	Solar Courtyard Light	Solar Guard Light	
High Quality PV Rechargeable Lead Acid battery Super bright LED						
	Code	BSSDM02	BX-GY-02	BSSJ12	BSS7CLPL	BSSJ22
	Battery Type	Lead Acid	Ni-MH	Lead Acid	Lead Acid	Lead acid
	Battery Life	24hrs full charge	24hrs full charge	8hrs full charge	13hrs full charge	6hrs full charge
	Lamp Power/ Lumen	18W / 1485lm	3W / 310lm	1.8W / 196lm	43W / 460lm	3.5W / 378lm
PV Panel	12W Polycrystalline	1.8W Polycrystalline	23W Polycrystalline	10W Polycrystalline	10W Polycrystalline	
Specifictions	PIR, Built-In Day Night Sensor	PIR, 10m detection + timer Mounting kit included	PV Panel Holder	Day Night Sensor Bulk System	Mounting kit	

DC APPLIANCES

	DC TV	DC Ceiling Fan	DC Fan	DC Freezer
				
Code	JY-60TV	SLE-F2001HD	SF-D6609	SLA-0145
Rated Power	-	20W	16W	45W
Voltage	12VDC/ 230VAC	12VDC	12VDC	12/ 24VDC
Specifications	15" Colour LCD TV Antenna not included	Metal construction 3 blades, 1 speed	9" inch, aluminium, chrome 3 blades, 2 speed	45lt capacity, temperature -10°C to 18°C
Packing Size	450 x 380 x 125mm	210 x 210 x 180mm	300 x 120 x 290mm	570 x 745 x 545mm

SOLAR BATTERY CHARGERS

				
Code	SLP10F-12	SLP20F-12	SLP80F-12	SLP120F-12
Max Power	10W	20W	80W	120W
Voltage Pmax (Vmp)	17.0V	17.2V	17.2V	17.2V
Current Pmax (Imp)	0.58A	0.87A	4.56A	6.98A
Open Voltage (Voc)	21.6V	21.6V	22.84V	22.89V
Short circuit current	0.68A	0.96A	5.17A	7.72A
Package size	302 x 357 x 30mm	576 x 357 x 30mm	720 x 150 x 635mm	1070 x 610 x 140mm

FOLDABLE / FLEXIBLE SOLAR PANELS

Foldable

3m extension cable Cellphone accessories Heavy-duty material				
Code	SHB-10W	SHB-20W	SHB-50W	SLP10F-12A
Max Power	10W	20W	50W	10W
Voltage Pmax (Vmp)	17.42V	17.46V	17.7V	17.0V
Current Pmax (Imp)	0.57A	1.18A	2.87A	0.61A
Open Voltage (Voc)	21.2V	21.6V	21.8V	21.8V
Short circuit current	0.62A	1.29A	3.1A	0.69A
Package size	220 x 320 x 40mm	220 x 320 x 40mm	360 x 450 x 60mm	350 x 30 x 358mm

Flexible Semi-Rigid

				
Code	SLP20F-12A	SLP30F-12A	SLP40F-12A	SLP50F-12A
Max Power	20W	30W	40W	50W
Voltage Pmax (Vmp)	17.4V	17.4V	17.6V	17.7V
Current Pmax (Imp)	1.25A	1.67A	2.5A	2.95A
Open Voltage (Voc)	21.8V	21.9V	22.6V	22.8V
Short circuit current	1.41A	1.78A	2.89A	3.5A
Package size	350 x 30 x 358mm	375 x 30 x 635mm	375 x 30 x 795mm	475 x 40 x 955mm

Flexible

			Features: <ul style="list-style-type: none"> • Portable • Flexible construction • Ultra Light-weight • Laminated on Polymer • Higher Energy yield per Wp Applications: <ul style="list-style-type: none"> • Boating • Camping • Water pumping • Rural Electrification Standards: <ul style="list-style-type: none"> • IEC 61646 • IEC 61730
Code	FX320	FX680	FX1440
Max Power	32W	68W	144W
Voltage Pmax (Vmp)	16.5V	16.5V	33.0V
Current Pmax (Imp)	1.94A	4.10A	4.56A
Open Voltage (Voc)	23.8V	23.1V	46.2V
Short circuit current	2.4A	5.10A	5.30A
Package size	1380 x 400mm	2849 x 394mm	5486 x 394mm

SOLAR PV MODULES

ACDC offers a range of Polycrystalline panels designed for both On-Grid and Off-Grid applications. All panels are constructed using the highest quality components and are CE certified according to the IEC61215:1995 standard. All ACDC panels are covered by our 25 year warranty.



(Poly) Multicrystalline PV Module (Lower cost)

Code	Maximum Power (Pmax)	Voltage @ Pmax (Vmp)	Current @ Pmax (Imp)	Open-Circuit Voltage (Voc)	Short-Circuit Current (Isc)	Dimensions L x W x H
SLP005-12	5W	17.0V	0.29A	21.6V	0.34A	270 x 222 x 30mm
SLP010-12	10W	17.0V	0.58A	21.6V	0.68A	357 x 302 x 30mm
SLP020-12	20W	17.2V	1.16A	21.6V	1.31A	550 x 359 x 30mm
SLP030-12	30W	17.4V	1.72A	21.5V	1.89A	680 x 426 x 30mm
SLP040-12	40W	17.4V	2.30A	21.5V	2.53A	650 x 665 x 30mm
SLP050-12	50W	17.4V	2.87A	21.5V	3.18A	650 x 665 x 30mm
SLP060-12	60W	17.4V	3.74A	21.5V	4.11A	800 x 675 x 35mm
SLP080-12	80W	17.4V	4.58A	21.5V	5.03A	1005 x 675 x 35mm
SLP090-12	90W	18.0V	5.00A	21.7V	5.40A	1195 x 541 x 35mm
SLP100-12	100W	17.4V	5.74A	21.5V	6.36A	1240 x 675 x 35mm
SLP120-12	120W	17.4V	7.75A	21.5V	8.52A	1490 x 675 x 35mm
SLP130-12	130W	18.3V	7.10A	22.0V	7.80A	1370 x 675 x 35mm
SLP140-12	140W	18.3V	7.66A	22.0V	8.23A	1482 x 676 x 35mm
SLP135-24	135W	36.2V	3.73A	43.8V	8.06A	1020 x 992 x 35mm
SLP170-24	170W	34.8V	4.88A	43.4V	5.36A	1300 x 992 x 50mm
SLP180-24	180W	34.8V	5.17A	43.4V	5.68A	1482 x 992 x 50mm
SLP210-24	210W	29.0V	7.24A	36.3V	7.65A	1636 x 992 x 35mm
SLP240-24	240W	30.1V	8.00A	37.3V	8.64A	1640 x 992 x 50mm
SLP260-24	260W	34.9V	7.44A	43.7V	8.18A	1956 x 992 x 50mm
SLP270-24	270W	34.9V	7.73A	43.7V	8.50A	1956 x 992 x 50mm
SLP290-24	290W	36.5V	7.94A	44.0V	8.59A	1956 x 992 x 50mm

Monocrystalline PV Modules

SLP090S-12	90W	17.4V	5.17A	21.5V	4.48A	1195 x 541 x 35mm
SLP100S-12	100W	18.8V	5.3A	22.5V	5.83A	1195 x 541 x 35mm
SLP180S-24	180W	34.8V	5.17A	43.8V	5.55A	1580 x 808 x 40mm
SLP200S-24	200W	37.7V	6.85A	45.0V	7.25A	1580 x 808 x 40mm

Mechanical Characteristics

Solar Cells: Multicrystalline or Monocrystalline Solar cells

Construction: Front High-transmission 3.2mm tempered glass; Encapsulate: EVA; Back: TPT

Frame: Clear anodized aluminium alloy (silver colour)






Module Warranty:

- 25 year limited warranty of 80% power output;
- 10 year limited warranty of 90% power output;
- 5 year limited warranty of materials and workmanship.



SOLAR CHARGE CONTROLLERS

Electronically regulated charging: Boost and float charge, Deep discharge protection PWM regulation. Fully electronically protected: Panel surge, wrong polarity at the panel or battery, overload and short circuit at load. **CML** Range: Automatic 12/ 24 Volt detection, boost, equalize and float charging

4 LED indications: charge status, SOC, LVD, Overload/ short circuit					
			c/w Built-in Day/ Night Sensor		
Code	CA-08	CML-05	CML-08DS	CML-10	CML-20
Max module current	8A	5A	8A	10A	20A
Max load current	8A	5A	8A	10A	20A
Voltage	12V	12/ 24V	12/ 24V	12/ 24V	12/ 24V
Display	2 x LED, 1 x Duo-LED	2 x LED, 1 x Duo-LED	2 x LED, 1 x Duo-LED	2 x LED, 1 x Duo-LED	2 x LED, 1 x Duo-LED
Self consumption	<4mA	<4mA	<4mA	<4mA	<4mA
Dimensions	80 x 100 x 32mm	80 x 100 x 32mm	80 x 100 x 32mm	80 x 100 x 32mm	80 x 100 x 32mm






ECO PWM CHARGE CONTROLLER

The **SLX** range of solar controllers are optimally suited for inverter systems. The charging can be individually set up by using four buttons behind the front casing. Multi-stage charging technology + PWM control. Integrated self test function.

LCD indications: Battery voltage PV Wattage Charge current					
Code	SLX-10	SLX-20	SLX-30	SLX-40	SLX-4*
Max module current	10A	20A	30A	40A	*10A/ 40A (Add to code)
Max load current	10A	20A	30A	10A	10A/ 40A
Voltage	12/ 24V	12/ 24V	12/ 24V	12/ 24V	48V
Display	LCD	LCD	LCD	LCD	LCD
Self consumption	12.5mA	12.5mA	12.5mA	12.5mA	25mA
Dimensions	187 x 95 x 44mm	187 x 95 x 44mm	187 x 95 x 44mm	187 x 128 x 49mm	187 x 128 x 49mm

SOLAR CHARGE CONTROLLER

The SunStar is a highly reliable solar battery charger and its most critical feature is to maximize the harvest energy from the PV array into the battery by using either advanced Maximum Power Point Tracking (MPPT) technology or Pulse Width Modulation (PWM) control.

LCD indications: Battery voltage PV Wattage Charge current					
Code	SS-30C	SS-45C	SS-50C	SS-60C	SS-80C
Max module current	30A	45A	50A	60A	80A
Max load current	30A	45A	50A	60A	80A
Voltage	12/ 24/ 48V	12/ 24/ 48V	12/ 24/ 36/ 48V	12/ 24/ 48V	12/ 24/ 36/ 48V
Control Method	PWM	PWM	MPPT	PWM	MPPT
Display	LED	LCD	LCD	LCD	LCD
Max Voc	140VDC	140VDC	240VDC	140VDC	240VDC
Dimensions	65 x 236 x 35mm	266 x 127 x 75mm	415 x 225 x 147mm	266 x 127 x 75mm	498 x 393 x 147mm

NEW

BATTERIES

ACDC Batteries use special alloyed calcium-lead which leads to extremely low levels of "Electrolyte decrease". Therefore there is no need to top up with distilled water if the charging system remains error free.

- Complete protection against reduction of sulfuric acid
- Consistent starting performance



Sealed Lead Acid



M Solar Cells

Deep cycle Calcium Lead Acid

Life span 3 to 5 years in standby service

Code	Type	Nominal Voltage	Nominal Capacity	Terminal type	Size (mm)
SY612	Lead Acid	6V	1.2AH	Lug	96 x 72 x 84
SY632	Lead Acid	6V	3.2AH	Lug	125 x 33 x 72
SY640	Lead Acid	6V	4.0AH	Lug	70 x 47 x 107
SY640-S	Lead Acid	6V	4.0AH	Lug	65 x 33 x 75
SY1245	Lead Acid	12V	4.5AH	Lug	90 x 70 x 107
SY1270	Lead Acid	12V	7.0AH	Lug	150 x 65 x 102
SY12012	Lead Acid	12V	12.0AH	Lug	151 x 98 x 102
SY12024	Lead Acid	12V	24.0AH	Lug	165 x 126 x 173
SY12035	Calcium Lead	12V	35.0AH	SAE Post	230 x 200 x 135
SY12045	Calcium Lead	12V	45.0AH	SAE Post	230 x 240 x 135
SY12065	Calcium Lead	12V	65.0AH	SAE Post	230 x 265 x 190
SY12080	Calcium Lead	12V	80.0AH	SAE Post	226 x 352 x 175
SY120102	Calcium Lead	12V	102.0AH	Nut	240 x 335 x 175
SY120200	Calcium Lead	12V	200.00AH	SAE Post	245 x 520 x 280
SY6600	Gel Crystal	6V	600.00AH	SAE Post	445 x 585 x 198
SY6750	Gel Crystal	6V	750.00AH	SAE Post	445 x 585 x 230
SY6900	Gel Crystal	6V	900.00AH	SAE Post	445 x 585 x 262

NEW

BATTERY TESTER

Features:

- Simultaneously test voltage, resistance and battery capacity
- Auto-calibration function to enhance testing accuracy
- Fast testing of battery or string, results are automatically saved
- USB connection for software updating and data transfer to PC
- Powerful PC management software for data storage and analysis
- Audible alarm and over voltage protection
- Easy navigation via the colour touch screen and keyboard



Code	PITE3915
Description	Portable battery tester for batteries
	Suitable for cell voltages: 1.2V, 2V, 6V and 12V
	Suitable for 5Ah - 6000Ah batteries
	Tests cell resistance and voltage to help eliminate weak batteries and ensure optimal performance of the system
	3000 cell test results stored in memory

Technical Specifications

Resistance range	0.00mΩ ~ 100mΩ
Test resolution/ accuracy:	
Resistance	0.1mΩ/ ±1.0% of rdg
Voltage	1mV/ ±0.2% of rdg
Battery	Li-ion
Battery Life	More than 8 hours
Testing Capacity	1-254 cells per string
Voltage range	0-220V
Display	320 x 240 Pixel TFT
Size	210 x 110 x 60mm

NEW

SOLAR AC HOME SYSTEM

Complete single phase solar power solution for use in a home. The kit includes all the components needed to make the switch over to solar quick and easy. The integrated display allows the user to have all the information about the status of the system at their fingertips.

Price includes:

Batteries & PV panels incl.
Inverter
Solar regulators
Mains isolator
DC Disconnecter
LCD Display




* Solution excludes PV mounting system and wiring.




Code	DE-H150	DE-H250	DE-H350	HYB001-6	HYB001-8	DE-H10K
Description	500W Power Pack	1000W Power Pack	3000W Power Pack	6000W Power Pack	8000W Power Pack	10000W Power Pack
Max power rating	500W	1000W	3000W	6000W	8000W	10000W
Max current	2.5A	4.5A	12.5A	25A	32A	42A
Battery	80AH	4 x 100AH	8 x 100AH	20 x 100AH	24 x 100AH	36 x 100AH
Solar Panels	80W	2 x 220W	4 x 220W	12 x 270W	14 x 270W	20 x 220W
Output voltage	220-240± 1%					
Input voltage	12VDC	12VDC	12VDC	48VDC	48VDC	48VDC
Standby Time	6hrs	7hrs	8hrs	10hrs	10hrs	10hrs

MOBILE POWER BACKUP SYSTEMS

Mobile UPS - Modified sine wave output 230VAC single phase, to be used for home or office during power cuts. All in one inverter/ charger/ auto change over/ battery pack and trolley

Input voltage 12VDC/ 230VAC Overload protection Over/ under voltage protection				Solar System 			
Code	EPS-1000B	EPS-1500B	EPS-2000B	EPS-2000D	PP-1500	PP-2000	PP-3000
Constant watts	1000W	1500W	2000W	2000W	1500W	2000W	3000W
Peak watts	2000W	3000W	4000W	4000W	3000W	4000W	6000W
Voltage	12VDC	12VDC	12VDC	13.5 - 20VDC	12VDC	12VDC	12VDC
Back-up time full load	1.2hrs	0.8hrs	0.6hrs	0.6hrs	1.6hrs	1.2hrs	0.8hrs
Back-up time +102Ah	2.4hrs	1.6hrs	1.2hrs	1.2hrs	2.4hrs	1.8hrs	1.2hrs
Back-up time +4x102Ah	6hrs	4hrs	3hrs	3hrs	4.8hrs	3.6hrs	2.4hrs
Accessories	(4 batteries)	(8 batteries)	(16 batteries)	Specifications: <ul style="list-style-type: none"> Modified sine wave 210-230VAC Robust industrial wheels EPS-2000D 180W PV Panel, 20A Controller 			
Battery Boxes	BAT-A4	BAT-A8	BAT-A16				
Box Size	420 x 450 x 670	760 x 450 x 770	780 x 455 x 1360				

DC TO AC INVERTERS

* Calculations for power Power tool W x 3 = 100W x 3 = 300W				Features: <ul style="list-style-type: none"> Low voltage LED Overload LED Output Volt 230VAC/ +/- -8% DC to AC isolation Short circuit protection Applications: Radio's, TV, Cellphones Energy saving lamps Power tools Do Not Use for Iron Core Ballast
Code	PM-A-150-SA	PM-A-300-SA	PM-A-600-SA	PM-A-1000-SA
Maximum power	150W	300W	600W	1000W
Peak power	250W	500W	1000W	1500W
Input volts	10-40VDC	10-14VDC	10-14VDC	10-14VDC
Dimensions	150 x 190 x 170mm	420 x 215 x 140mm		340 x 335 x 250mm

MODIFIED SINE WAVE INVERTERS

 Modified Sine				 Code PM-R15A *Remote control Kit			
Code 12V	PM-A-0150AH12	PM-A-0300AH12	PM-A-0600AH12	PM-A-1000AH12	PM-A-1200AH12	PM-A-1500AH12	PM-A-2500AH12
Code 24V	-	-	PM-A-0600AH24	PM-A-1000AH-24	PM-A-1200AH2	PM-A-1500AH2	PM-A-2500AH24
Max continuous power	150W	300W	600W	1000W	1200W	1500W	2500W
Peak power	300W	600W	1200W	2000W	1400W	2000W	4200W
Output Amps	0.6A	1.25A	2.5A	4.16A	5A	7A	10.4A
Dimensions	115 x 101 x 63mm	189 x 101 x 63mm	245 x 176 x 85mm	360 x 236 x 83mm	330 x 275 x 110mm	480 x 275 x 110mm	510 x 275 x 110mm
Code 12V with charger				PM-A-1000CA12	PM-A-1200CA12	PM-A-1500CA12	PM-A-2500CA12
Code 24V with charger				PM-A-1000CA24	PM-A-1200CA12	PM-A-1500CA24	PM-A-2500CA24

Specifications:

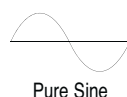
- AC Output voltage 230VAC
- Regulations $\pm 0.5\%$
- Frequency 50Hz $\pm 1\%$
- Low voltage shut down 12/ 24 9.8V/ 19.12V

Features:

- Overload protection
- DC Input/ AC Output short circuit protection
- All inverters supplied with cables
- Cooling Fan



PURE SINE WAVE INVERTERS



BC1



Code 12V	CZ-150S-12	CZ-300S-12	CZ-600S-12*	CZ-1000S-12*	CZ-2000S-12*	CZ-3000S-12*	CZ-4000S-12*	CZ-5000S-12*	CZ-6000S-12*
Code 24V	-	-	CZ-600S-24*	CZ-1000S-24*	CZ-2000S-24*	CZ-3000S-24*	CZ-4000S-24	CZ-5000S-24*	CZ-6000S-24*
Code 48V	-	-	-	CZ-1000S-48*	CZ-2000S-48*	CZ-3000S-48*	CZ-4000S-48*	CZ-5000S-48*	CZ-6000S-48*
Max continuous power	150W	300W	600W	1000W	2000W	3000W	4000W	5000W	6000W
Peak power	300W	600W	1200W	2000W	4000W	6000W	8000W	10000W	12000W
Output Amps	0.6A	1.5A	2.8A	4.3A	8.7A	13A	17A	21A	26A
Dimensions	180x105x60mm	260x165x85mm	260x165x85mm	328x165x85mm	416x165x85mm	497x170x150mm	485x210x127mm	565x210x145mm	565x210x145mm

* Add (C) for Charger Unit

- High Quality Components are used to improve efficiency.
- Automated manufacturing processes ensure product quality.
- Advanced PCB design results in reduced electro magnetic interference and improved performance.



British Plug for Inverters

Code A304

HOME SOLAR INVERTERS

This home solar inverter system incorporates features such as overload protection, short circuit protection and a DC cold start function. The inverter is designed for 24 hour operation.



NB: Requires external solar controller

Code	HI-1K	HI-2K	HI-3K	HI-5K	HI-6K	HI-8K
Max.con power	1.2kVA/ 800W	2.4kVA/ 1600W	3.6kVA/ 2400W	5kVA/ 4000W	6kVA/ 6000W	8kVA/ 8000W
Input voltage range	120-270VAC					
Input DC range	12VDC	24VDC	24VDC	24VDC	48VDC	48VDC
Output voltage	220/ 230/ 240VAC re-settable via LCD Display					
Output current	3.5A	7A	10A	17A	26A	35A
Battery charger	>40A	>50A	>50A	>60A	>60A	>60A
Dimensions	298 x 400 x 150	298 x 450 x 190	298 x 450 x 190	415 x 600 x 260	415 x 600 x 260	415 x 600 x 260

Specifications:

- Pre-settable parameters
- High efficiency design
- Self-diagnostic function
- Multi stage charger
- Removable LCD Display
- Input/ output protection

DC TO AC INVERTER/ CHARGER/ POWER MANAGEMENT SYSTEM



- Combi-functional, with intelligent shore and generator power management
- Uninterrupted AC power (UPS function)
- Virtually unlimited power thanks to parallel operation
- Three-phase capability
- **Power Control:** Dealing with limited generator, shore side or grid power to avoid sudden loads on generator causing voltage spikes
- **Power Support:** Boosting the capacity of shore or generator power, an innovative feature of the CombiPlus
- Four-stage adaptive charger and dual battery charging
- LCD display for parameter setting and error messages
- Programmable auxiliary relay (x3)
- Programmable input current limit for power share
- Communication with max. 10sets of solar chargers (SunStar series)
- Four preset control mode applications with AC grid, AC charging and solar charging
- Optional remote panel with LCD display for easy operation at a distance

CombiPlus - Pure Sine Wave Inverter/ Charger/ Power Management System - Ideal for home, office, caravan etc.

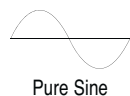
Code	DC Voltage (IN)	AC Voltage (IN/OUT)	Rated Power	Max Power	Size (mm)	Battery Voltage	Charging Current	Battery Bank Size
CP-1500-122	12VDC	185-240VAC	1500W	3000W	362 x 258 x 370	12VDC	70A	200-700Ah
CP-3000-122	12VDC	185-240VAC	3000W	6000W	424 x 258 x 370	12VDC	140A	400-1200Ah

The "CombiPlus" is a powerful true sine wave inverter, a sophisticated battery charger that features adaptive (4-stage) charge technology and a high-speed AC Auto Transfer Switch (ATS) in a single compact enclosure. The "CombiPlus" can also support the Mains Power with battery power when the load increases or the Mains fails. If the load falls, the excess Mains Power is diverted to charge the battery. The unit can also control up to 10 **SS-45C** solar charge controllers to enable solar battery charging. (see page 7)



AC HOME HYBRID SYSTEM

The Solar hybrid system is a PLC controlled solar/ wind modular solution for home and office. Our new modular system can be increased from 3kVA to 15kVA. The base unit consists of a steel 21U 19inch cabinet, touch screen monitor, 100A solar controller and an off grid inverter (3kVA).



Pure Sine

IP20

Linear Load
Efficiency
83 to 87%



Touch Screen Monitor



100A Solar Controller



Stackable Grid Inverter



Complete System

Batteries, PV Panels and PV mounting system to be ordered separately

*3kVA is a base unit and can be increased with selected modules to 15kVA

Base Unit		Add on inverter modules				
Code	*SWKH001-3KVA	SPO1000-B	SPO3000-B	SPO6000-B	SPO9000-B	SPO12000-B
Max power	2100W	700W	2100W	4200W	6300W	8400W
Output voltage	220/ 230/ 240 +/-1%			220/ 230/ 240 +/-1%		
Max current	13.6A	4.5A	13,6	37,3	40,9	54,5
DC Voltage	48 (40-57VDC)			48 (40-57VDC)		
Weight Kgs	88kgs	5	13,5	32	41	49
Dimension	21U x 600D	440 x 286 x 1U	435 x 358 x 2U	435 x 380 x 445	435 x 380 x 445	435 x 380 x 445

Accessories

Code	Description
SPC048200	Solar Charge controller MPPT, 200A, 48VDC, Max PV input 9.6kW (58-70V)
SWKH-41U	41U battery cabinet + DC Bus bar, Fans and extraction, lockable doors



HOME SOLAR INVERTERS

The Solar Powabank is the latest innovation in power products: Simplified structure, reliable performance, easy operation. This Solar Power System can offer stable and reliable electricity to those regions where are short of power or even without power.

Code	SAP-05007AW	SAP-10007AW	SAP-20007AW	SAP-20007AW-PACK
Description	500W AC Power Pack	1000W AC Power Pack	2000W AC Power Pack	PowerBank Only
Max power rating	500W	1000W	2000W	2000W
Max current	2.5A	4.5A	9A	9A
Controller Amps	20A	30A	30A	30A
Battery	55AH	100AH	200AH	200AH
Solar Panels*	50W	100W	2 x 100W	-
Output voltage	205 - 230 +/-1%			205 - 230 +/-1%
Input voltage	12-14.5VDC			12-14.5VDC
Dimensions	300 x 180 x 550mm	460 x 240 x 550mm	560 x 290 x 480mm	560 x 290 x 480mm

Features

- Reliable, maintenance free performance
- Simple design, to meet your requirements
- LCD Display clearly shows system status at all times
- Various applications ranging from everyday to emergency power supply
- Power generation and storage for uninterrupted use in places without electricity

* For mounting brackets for the solar panels see page 22

SOLAR EDGE INVERTERS

This range of solar inverters is part of SolarEdge's innovative system designed to provide superior performance at a competitive price. The solar edge PV inverter combines a sophisticated, cutting edge digital control technology and a one stage, ultra-efficient power conversion architecture to achieve superior performance - over 97% efficiency with best in class reliability. Our fixed-voltage technology ensures the inverter is always working at its optimal input voltage, regardless of the number of modules or environmental conditions.

The best choice for SolarEdge enabled systems

- Superior efficiency (98%)
- Small, lightest in its class and easy to install
- Built-in module-level monitoring
- Communication to internet via ethernet or wireless
- **IP65** - Outdoor and indoor installation



Single Phase



Three Phase

Free 12 year warranty for inverters

Must be used with Solar Edge Power Optimizers (PG13)

Single Phase Inverters

Code	SE2200	SE3000	SE3500	SE4000	SE5000	SE6000	SE4000-16A	RATING
Rated AC Power Output	2200	3000	3500	4000	5000	6000	4000	W
AC Output Voltage (Nominal)	220/230							Vac
AC Output Voltage Range	184-264.5							Vac
AC Frequency	50/60+/-5%							Hz
Max Current Output	12	16.5	19.5	22	27	27	16	A
Residual Current/ Step Detector	300/30							mA
Utility monitoring, islanding protection, Country configurable thresholds	Yes							-
Recommended Max DC Power (module STC)	2400	3300	3900	4400	5500	6600	4400	W
Transformer-less, ungrounded	Yes							-
Max Input Voltage	500							Vdc
Nominal DC Input Voltage	350							Vdc
Max Input Current PV	8.5	11.5	13.5	15.5	19.5	23	15.5	A
Support Communication Interface	RS485, RS232, ETHERNET, Zigbee (Optional)							-

Three Phase Inverters

Code	SE7K	SE8K	SE9K	SE10K	SE12.5K	SE15K	SE16K	SE17K	RATING
Rated AC Power Output (Max)	7000	8000	9000	10000	12500	15000	16000	17000	W
AC Output Voltage (Nominal)	380/ 220: 400/ 230								VAC
AC Output Voltage Range	184-264.5								VAC
Max Current Output	11.5	13	14,5	16	20	23	25.5	26	A
Grids supported - three phase	3/ N/ PE: 230/ 400								-
Residual current/ step detector	300/ 30								mA
Utility monitoring, islanding protection, country configurable threshold	Yes								-
Recommended max DC power (module STC)	7700	8800	9900	11000	13700	16500	17600	18700	W
Transformer-less, ungrounded	Yes								-
Max input voltage	950								VDC
Nominal DC input voltage	750								VDC
Max input current PV	12	13,5	15	16,5	21	22	23	23	A
Support communication interface	RS485, RS232, ETHERNET, ZIGBEE or GSM (Optional see page14)								-

Code*	Description	Safety Standard compliance	Emissions
WE-1M-25	Extended warranty, single phase inverter 4 - 6kW	IEC-62103 (EN50178), IEC-62109	IEC61000-6-2, IEC61000-6-3
WE-1S-25	Extended Warranty, single phase inverter <4kW	Grid connection standards:	
WE-3H-25	Extended warranty, three phase inverter 15 - 17kW	VDE 0126-1-1, VDE-AR-N-4105, AS-4777, RD-1663, IEC61000-3-11, IEC61000-3-12, FCC part 15 class B, RoHS Yes	
WE-3M-25	Extended warranty, three phase inverter 7 - 12.5kW		

NEW

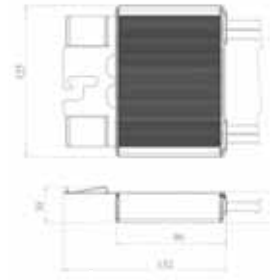
POWER OPTIMIZER

A superior approach to maximizing the throughput of photovoltaic systems

- Up to 25% more energy - module-level MPPT eliminates power loss due to module mismatch
- Superior efficiency- peak (99.5%), weighted (98.9%)
- Next generation maintenance with module-level monitoring and smart alerts
- Automatic DC safety
- Maximum roof utilization
- Independant optimization technology (IndOPTM)

The most cost effective solution for residential, commercial and large field installations

Only for use with Solar Edge Inverters



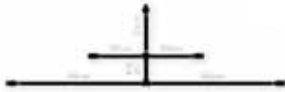
Code	OPA250-RV	OPA300-LV	OPA400-MV	OPA400-EV	RATING
Rated Input DC Power	250	300	400	400	W
Absolute max input voltage	47	55	75	130	VDC
MPPT Operating range	5-47	5-55	5-75	15-130	VDC
Max input current	10	10	12.5	7	A
Max Output current	15				A
Operating Output Voltage	5-60				VDC
Total max string voltage 1ph/ 3ph	500/ 950				VDC
Min number Optimizers	8 (1Ph system)/ 16 (3Ph system)				-
Max number Optimizers	Module power dependant: Maximum 25 (1Ph system)/ 50 (3Ph system)				-

NEW

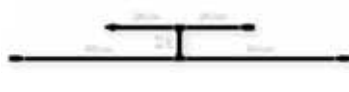
BRANCH-CABLE FOR POWER OPTIMIZER INPUT

Ideal solution for low power modules

- Allows to connect 2-4 modules in parallel to a single power optimizer
- Double insulated PV wire
- Max current 30A @ 1000VDC
- Utilize power optimizers to their full power rating
- Multi-contact MC4 connectors



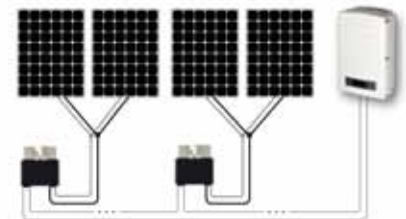
SE-CBY-4MM



SE-CBY-3MM



SE-CBY-2MM



Code	SE-CBY-2MM	SE-CBY-3MM	SE-CBY-4MM
Description	2- Module branch cable	3- Module branch cable	4- Module branch cable
Kit consists of	20 male & 20 female units in each pack	10 male & 10 female units in each pack	10 male & 10 female units in each pack

SAFETY & MONITORING INTERFACE

Benefit from module-level monitoring and automatic safety with non-SolarEdge inverters.

- Interface between SolarEdge power optimizers and non-SolarEdge inverters
- Module safety voltage for installer and firefighter safety
- Mobile and web-based module level performance monitoring
- Communication via RS232, RS485 or Ethernet
- **IP65** for outdoor installation

The SolarEdge safety and monitoring interface collects module performance data measured by each power optimizer, as well as inverter data*, and interfaces with the SolarEdge server to allow module-level and system-wide monitoring. (For communication options please see page 14)



Code	SMI-35-3C-01	Additional Features	
DC Input		Display	LCD & LED
Max input voltage	1000VDC	Remote monitoring	Yes
Total max current	35A	Module Safety DC Voltage	Yes
Input type	3 x MC4 Compatible	On-site Master shutdown	Yes
AC Input		Lighting Protection	Yes
Supported voltage	85 - 264VAC	Read inverter data	Yes
AC Frequency	47 - 62Hz	DC Current Sense	Yes
Max input current	300mA		



CONTROL AND COMMUNICATION GATEWAY

Highlights:

- Analogue inputs accommodate a variety of environmental sensors, including temperature, irradiance and wind
- Logs inverter monitoring data
- Power reduction interface - ripple control
- Extends the distance of wired connections
- Wireless connectivity - GSM or Zigbee wireless connection options (see below)
- Interfaces to non-SolarEdge monitoring loggers
- Revenue meter connection



Application Examples:



Code	SE1000-CCG-G		
Power supply	Included, 100-240VAC	Number of analogue inputs	3
Supply voltage	9 - 140VDC (2W)	Input 1	0-2V or 0-10V
Ethernet interface	10 / 100 - BaseT	Input 2	0-20mV or 0-2V
Wireless connection	ZigBee Module (see below)	Input 3	-20mA - 20mA
Power Reduction INT.	4 control pins, 5V, GND	Supported RS485 Devices: SolarEdge devices, export inverter data, Revenue meter, Exported Data to Non-SolarEdge Logger	
RS232 interface	For local connection		



GSM MODEM

SolarEdge offers a GSM/ GPRS modem for wireless connectivity. The modem enables a wireless link between a master inverter and the SolarEdge monitoring server using GSM cellular communication. GSM connectivity allows to effortlessly connect remote installations to the monitoring portal.

Effortless Monitoring

- Connects wirelessly to the monitoring portal
- Easy installation, connects to serial port of master inverter or communication gateway
- European compliance

- Uses any available GSM network
- External antenna for strong reception



Code	SE1000-GSEG-20E	Rating
RF Data rate	14,4	kbps
Frequency bands	850/ 900/ 1800/ 1900	Mhz
Transmit power	30 (@ 1800/ 1900Mhz)/ 33 (@850/ 900Mhz)	W
Data volume	0.13 (Per power optimizer)/ 0.25 (per inverter)	MB/ Month
Antenna	external, 0dbi, SMA/M connector	-
Power supply	5.5 - 32	VDC



WIRELESS COMMUNICATION PRODUCTS

SolarEdge offers Zigbee products for wireless connectivity. These enable either a wireless mesh network between multiple inverters at a site, or wireless link between a single inverter and a remote internet gateway point.

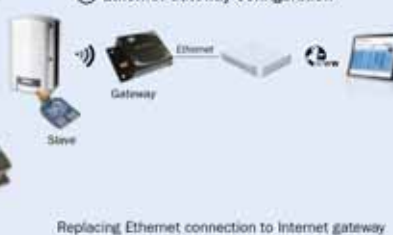
Interconnect with ease

- Replaces either RS485 or Ethernet wiring
- External antennas for long or non-line-of-sight-links
- Interconnects inverters wirelessly
- Connects wirelessly between an inverter and a remote internet gateway
- Zigbee unit installed within the inverter enclosure for outdoor resilience

① Inter-Inverter Wireless Communication



② Ethernet Gateway Configuration



Code	Description	Functions
SE1000-ZB02-MST	1 Digi X-bee-Pro coordinator module, antenna (Master inverter)	Inter-inverter communication
SE1000-ZB02-SLV	1 Digi X-bee-Pro coordinator module, antenna (Slave inverter)	Inter-inverter communication
SE1000-ZB00-DG2-X	1 Digi Connect Port x2 gateway, 1 Digi X-bee-Pro router module, antenna	Ethernet Gateway
Performance	Description	Rating
RF Data Rate	250	kbps
Indoor/ Urban rating	15	m
Outdoor/ RF Line of Sight	250	m
Frequency Band	2.4	Ghz
Antenna	2.11" helical whip, RP-SMA connector	-
Port (SE1000-2B00-DG2-X)	RJ45, 10/ 100Ethernet	-
Power Supply	9-30	VDC

SINGLE PHASE GRID TIE INVERTERS

The Fronius IG Plus generation of inverters represents an evolution of the proven Fronius IG product family. Power categories from 2.6 to 12kW promise suitability for every possible system size. With a maximum efficiency of 95.9%, the Fronius IG Plus range achieves one of the highest values for transformer inverters.



Fronius inverters always achieve maximum yield, even when in the partial-load range. This is all down to the unique Fronius Master Inverter X-Change system (MIX™). The "master" is allocated alternately, taking into account the operating hours worked.



Fronius transformer inverters use a high-frequency (HF) transformer. The automatic transformer switchover facility produces three efficiency peaks. The result: a constant level of efficiency across the entire input voltage range, resulting in higher yields.



With the Fronius Datamanager, we offer a WLAN interface in the inverter itself. The inverter is connected to the internet without additional cabling and grants you the perfect overview of how the PV system is operating. (Optional)



Fronius inverters are ready for the Smart Grid of tomorrow. A series of smart functions, known as Advanced Grid Features, are built into the devices.



Code	FIGP25V-1	FIGP30V-1	FIGP35V-1	FIGP50V-1	FIGP55V-1	FIGP60V-1
Input Data	25V-1	30V-1	35V-1	50V-1	55V-1	60V-1
DC maximum power at cos Ø=1	2.740W	3.170W	3.710W	4.260W	5.260W	6.320W
Max. input current (I _{dc} max)	11.9A	13.8A	16.2A	18.6A	22.9A	27.5A
Max array short circuit current	17.9A	20.7A	24.3A	27.9A	34.4A	41.3A
Min. input voltage (U _{dc} min)	230V					
Feed-in start voltage (U _{dc} start)	260V					
Nominal input voltage (U _{dc} max)	370V					
Max input voltage (U _{dc,1})	600V					
MPP voltage range (U _{mpp min} - U _{mpp max})	230 - 500V					
Number of DC inputs	6					
Output Data	25V-1	30V-1	35V-1	50V-1	55V-1	60V-1
AC nominal output (P _{ac, r})	2600W	3.000W	3.500W	4.000W	5.000W	6.000W
Max. output power	2600VA	3.000VA	3.500VA	4.000VA	5.000VA	6.000VA
Max. output current (I _{ac} max)	11.3A	13.0A	15.2A	17.4A	21.7A	26.1A
Grid connection (U _{ac, r})	1-NPE 230V					
Min. output voltage (U _{ac min})	180V					
Max. output voltage (U _{ac max})	270V					
Frequency (f _i)	50Hz/ 60Hz					
Frequency range (f _{min} - f _{max})	46 - 65Hz					
Distortion factor	<3%					
Power factor (cos Ø _{ac, r})	0.75 - 1ind / cap					
General Data	25V-1	30V-1	35V-1	50V-1	55V-1	60V-1
Dimensions (height x width x depth)	673 x 434 x 250mm				968 x 434 x 250mm	
Weight	23.8kg				36.9kg	
Degree of protection	IP54					
Protection class	1					
Overvoltage category (DC/ AC)	2 / 3					
Night time consumption	ca. 1W					
Inverter type	High Frequency Trasnformer					
Cooling	Regulated air cooling					
Installation	Indoor & outdoor installation					
Ambient temperature range	from 20°C to +55°C					
Permitted humidity	0% to 95%					
DC connection technology	Screw terminal connection 1.5mm² - 16mm²					
AC connection technology	Screw terminal connection 2.5mm² - 35mm²					

THREE PHASE GRID TIE INVERTERS

The Fronius IG Plus generation of inverters represents an evolution of the proven Fronius IG product family. Power categories from 2.6 to 12kW promise suitability for every possible system size. With a maximum efficiency of 95.9%, the Fronius IG Plus range achieves one of the highest values for transformer inverters.



Fronius inverters always achieve maximum yield, even when in the partial-load range. This is all down to the unique Fronius Master Inverter X-Change system (MIX™). The "master" is allocated alternately, taking into account the operating hours worked.



Fronius transformer inverters use a high-frequency (HF) transformer. The automatic transformer switchover facility produces three efficiency peaks. The result: a constant level of efficiency across the entire input voltage range, resulting in higher yields.



With the Fronius Datamanager, we offer a WLAN interface in the inverter itself. The inverter is connected to the internet without additional cabling and grants you the perfect overview of how the PV system is operating. (Optional)



Fronius inverters are ready for the Smart Grid of tomorrow. A series of smart functions, known as Advanced Grid Features, are built into the devices.



Code	FIGP55V-3	FIGP60V-3	FIGP80V-3	FIGP100V-3	FIGP120V-3	FIGP150V-3
Input Data	55V-3	60V-3	80V-3	100V-3	120V-3	150V-3
DC maximum power at $\cos \varnothing=1$	5.250W	6.300W	7.360W	8.430W	10.590W	12.770W
Max. input current ($I_{dc \max}$)	22.8A	27.5A	32.0A	36.7A	46.2A	55.6A
Max array short circuit current	34.2A	41.3A	48.0A	55.1A	69.3A	83.4A
Min. input voltage ($U_{dc \min}$)	230V					
Feed-in start voltage ($U_{dc \text{ start}}$)	260V					
Nominal input voltage ($U_{dc \max}$)	370V					
Max input voltage ($U_{dc,1}$)	600V					
MPP voltage range ($U_{mpp \min} - U_{mpp \max}$)	230 - 500V					
Number of DC inputs	6					

Output Data	55V-3	60V-3	80V-3	100V-3	120V-3	150V-3
AC nominal output ($P_{ac,r}$)	5.000W	6.000W	7.000W	8.000W	10.000W	12.000W
Max. output power	5.000VA	6.000VA	7.000VA	8.000VA	10.000VA	12.000VA
Max. output current ($I_{ac \max}$)	7.3A	8.7A	10.2A	11.6A	14.5A	17.4A
Grid connection ($U_{ac,r}$)	3-NPE 400V/ 230V					
Min. output voltage ($U_{ac \min}$)	180V					
Max. output voltage ($U_{ac \max}$)	270V					
Frequency (f_i)	50Hz/ 60Hz					
Frequency range ($f_{\min} - f_{\max}$)	46 - 65Hz					
Distortion factor	<3%					
Power factor ($\cos \varnothing_{ac,r}$)	0.75 - 1ind./ cap					

General Data	55V-3	60V-3	80V-3	100V-3	120V-3	150V-3
Dimensions (height x width x depth)	1.263 x 434 x 250mm					
Weight	49.2kg					
Degree of protection	IP54					
Protection class	1					
Overvoltage category (DC/ AC)	2/ 3					
Night time consumption	ca. 1W					
Inverter type	High Frequency Transformer					
Cooling	Regulated air cooling					
Installation	Indoor & outdoor installation					
Ambient temperature range	from 20°C to +55°C					
Permitted humidity	0% to 95%					
DC connection technology	Screw terminal connection 1.5mm ² - 16mm ²					
AC connection technology	Screw terminal connection 2.5mm ² - 35mm ²					



FRONIUS ACCESSORIES

	Datalogger Web	Datamanager Card	Com Card	Power Control Box
Code	FRONIUS-DW	FRONIUS-DM	FRONIUS-CC	FRONIUS-PCBOX
Supply Voltage	12VDC	230VAC (+10%/-15%)	230VAC (+10%/-15%)	12VDC
Power usage	1.43W	2.2W	60mA	1.3W
Interfaces	RS422 / Ethernet / USB Relay: 6A@30VDC / 6A@42VAC	RS422 / Ethernet / WLAN, 6 Digital Inputs, 4 Digital Inputs/Outputs (Ripple Control Interface)	RS422 (RJ45) x2 (In/Out)	RS422 (RJ45) x2 (In/Out) 2,3 & 4-Stage ripple-control signal receivers
Dimensions	190 x 114 x 53mm	132 x 103 x 22mm	140 x 100 x 28mm	197 x 110 x 57mm
Information	Datalogging for up to 4096 days. This enables you to get system information for up to 100 inverters in real-time. Inverters must be equipped with com card.	Datalogging for up to 4096 days. Enables inverters to be connected directly to the internet for remote monitoring & control. Integrated web server. Only 1 inverter in 100 needs to be fitted with this card. Other inverters must be equipped with com card.	Com card is a network card that each inverter requires for data communication.	Remote-controlled power reduction of PV systems >100kW. Inverters must be equipped with com card and one datalogger is required per system.






	Sensor Box	Irradiation Sensor	Module Temperature	Wind Speed Sensor	Ambient Temperature
		c/w 3m Cable	c/w 3m Cable	c/w 3m Cable	
Code	FRONIUS-SBOX	FRONIUS-IS	FRONIUS-MT	FRONIUS-WS	FRONIUS-AT
Supply Voltage	12VDC	-	-	-	-
Power usage	1.3W	-	-	-	-
Interfaces	-	Mono Crystalline Si-Sensor ± 70mV@100W/m²	PT1000 -20°C to +150°C	Cup Anemometer Pulse Output 18.79Hz = 1m/s	PT1000 -40°C to +180°C
Dimensions	197 x 110 x 57mm	110 x 40 x 40mm	50 x 100mm	85 x 93 x 115mm	Ø 6 x 50mm
Information	Measurement of additional data by connecting various sensors.	This sensor is for measuring the irradiated energy.	Sensor on adhesive film for module temperature measurement.	The sensor measures the exact speed of the wind.	Sensor for measuring indoor & outdoor temperature.



PURE SINE WAVE INVERTERS

Phoenix range of inverters are suitable for the widest range of applications. The design criteria have been to produce a true sine wave inverter with optimized efficiency but without compromise in performance. Employing hybrid HF technology, the result is a top quality product with compact dimensions, light in weight and capable of supplying power, problem-free to any load. A unique feature is very high start up power.

Phoenix Inverters





Phoenix Inverters					
Code 12V	GX-12/180	GX-12/350	GX-12/800	GX-12/1200	
Code 24V	GX-24/180	GX-24/350	GX-24/800	GX-24/1200	
Code 48V	-	GX-48/350	GX-48/800	GX-24/1200	
Max. con Power (25°C)	180VA/175W	350VA/300W	800VA/700W	1200VA/1000W	
Peak power (W)	350	700	1600	2400	
Input DC range	10.5 - 15.5VDC / 21 - 31VDC / 42 - 62VDC			9.2 - 17.3VDC / 18.4 - 34VDC / 36.8 - 68VDC	
Output voltage	230VAC +/- 3% 50Hz or 60Hz +/- 0,1%				
No. Load Consumption	2.6W / 3.8W	3.1W / 5W / 6W	6W / 5W / 4W	6W / 5W / 6W	
Battery connection	Screw terminals				
Dimensions	72x132x200	72x155x237	108x165x305	108x165x305	

Features

- Extra start-up power
- Low Battery Protection
- Self diagnostic function
- LED fault diagnosis
- Remote on/off switch
- Input/output protection






SOLAR CHARGE CONTROLLER

The BlueSolar range includes both MPPT & PWM type charge controllers. Ultra fast maximum power point tracking (MPPT) will improve energy harvest by up to 30% compared to PWM charge controllers. Pulse width modulation (PWM) charge controllers offer lower cost solutions with 3-stage battery charging and comprehensive protection.

						
Code	BLUESOLAR-5	BLUESOLAR-10	BLUESOLAR-20	BLUESOLAR-15	BLUESOLAR-40	BLUESOLAR-70
Rated charge current	5A	10A	20A	15A	40A	70A
Max. load current	10A	10A	20A	15A(Cont.) / 50A(Peak)	15A	70A
Voltage	12/24V (Auto)	12/24V (Auto)	12/24V (Auto)	12/24V (Auto)	12/24V (Auto)	12/24/36/48V (Auto)
Control method	PWM	PWM	PWM	MPPT	MPPT	MPPT
Max. solar voltage	28/55VDC	28/55VDC	28/55VDC	70VDC	28/55VDC	150VDC
Dimensions	70 x 133 x 34mm	70 x 133 x 34mm	76 x 153 x 37mm	100 x 105 x 40mm	202 x 66 x 140mm	350 x 160 x 135mm






PRECISION BATTERY MONITORING

The essential function of a battery monitor is to calculate ampere-hours consumed and the state of the charge of a battery. Ampere-hours consumed is calculated by integrating the current flowing in or out of the battery. Victron Battery Monitors are based on a powerful micro-processors programmed with algorithms for precision monitoring.

					
Code	BMV600S	BMV602S	BMV600HS	VE.NET-BC	VE.NET-HVBC
Input voltage	9.5-90VDC	9.5-90VDC	70-350VDC	0-75VDC	70-350VDC
Current drawn	<4mA	<4mA	<4mA	<4mA	<4mA
Battery capacity	20-9999AH	20-9999AH	20-9999AH	20-60000AH	20-60000AH
Comm port	Yes	Yes	Yes	Yes (VE. NET)	Yes (VE. NET)
Potential free contacts	60V/1A/(N/O)	60V/1A/(N/O)	60V/1A/(N/O)	60V/1A/(N/O)	60V/1A/(N/O)
Dimensions	69 x 69mm	69 x 69mm	69 x 69mm	22 x 75 x 105mm	22 x 75 x 105mm

PRECISION WATERPROOF BATTERY CHARGERS

Completely encapsulated waterproof, shockproof and ignition protected. Protected against overheating. LED Status indication. High efficiency. Adaptive charging.

					
Code	GX12/7	GX12/17	GX24/3	GX24/8	GX24/12
Supply voltage	200 - 265VAC	200 - 265VAC	200 - 265VAC	180 - 265VAC	200 - 265VAC
Charging current	7A	17A	3A	8A	12A
Charging type	3-Stage	3-Stage	3-Stage	4-Stage	3-Stage
Charge voltage	14,4 / 13,7	14,4 / 13,7	28,8 / 27,4	28,8 / 27,4	28,8 / 27,4
Dimensions	43 x 80 x 155	47 x 99 x 193	43 x 80 x 155	99 x 219 x 65	47 x 99 x 193



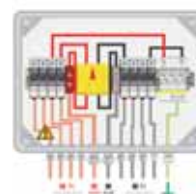
PV JUNCTION BOXES

Generator disconnection boxes are enclosures where PV arrays are electrically connected and where the isolation function is performed in order to permit maintenance work to be done. Junction boxes are supplied complete with fuse, surge and overload protection.

According to standards

- IEC 60634-7-712
- IEC 60943-7-3
- EN 61439-1-2
- IEC61643-11

NB: GRP= Glass reinforced Polyester



Code	Strings	Voltage	Isc	Surge Protection	IP Rating	Material	Size (mm)	Gland Size
ST031025P	3	1000 VDC	25A	PST31PV	IP65	ABS/PC	225 x 305 x 130	M12/M16
ST041025P	4	1000 VDC	25A	PST31PV	IP55	GRP	285 x 380 x 185	M12/M16
ST068060P	6	800 VDC	63A	PST31PV	IP55	GRP	285 x 570 x 185	M12/M16
ST148012P	14	800 VDC	125A	PST31PV	IP55	GRP	380 x 760 x 225	M12/M16
SH161012	16	1200 VDC	160A	PST31PV	IP55	GRP	760 x 380 x 225	M12/M16



HIGH RATING DC SWITCH DISCONNECTORS

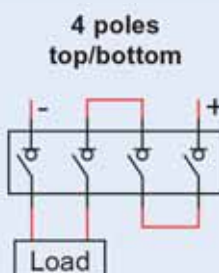
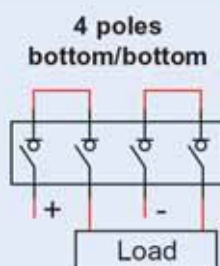
Series 55DC/ 55PV switch-disconnectors are manually operated load break switches that provide safety isolation for any low voltage circuit in photovoltaic applications.

According to standards

- IEC 60947-3
- IEC 60364-7-712
- EN 60947-3
- DIN VDE 0126
- VDE 0660-107 (1992)
- IEC 60364-4-410 9

General Characteristics

- Visual indication of contact position
- High thermal and dynamic withstand
- Operational load duty categories DC-21 and DC-22



Series bridges to be ordered separately
Protection to ensure the safety against electrical shocks

Code	220VDC	400VDC	600VDC	800VDC	1000V
55DC4014	125ADC	125ADC	80ADC	63ADC	-
55DC4026	250ADC	250ADC	125ADC	125ADC	-
55PV4012	-	-	-	-	125ADC
55PV4016	-	-	-	-	160ADC

Technical	55DC4014	55DC4026	55PV4012	55PV4016
Rated insulation voltage Ui	1000VDC	1000VDC	1000VDC	1200VDC
Rated impulse withstand voltage Uimp	8kV	8kV	12kV	12kV

Accessories

For specific types

For all types



Type	Internal Handle	External Handle + Shaft	Series Bridge	Terminal screen	Shaft Extender	Auxilliary contacts	Inter phase barrier
55DC4014	26995042	55K1G200	41DC4014	26984012	14001020 (200m)	26990031 (1NO/1NC)	-
55DC4026	26995052	55K1G200	41DC4026	26984020	14001025 (250m)	26990032 (2NO/2NC)	-
55PV	26995052	55K1G200	26092025	26984020	14001032 (320m) 14001050 (500m)	-	29980024

DC SWITCH DISCONNECTORS

Manually operated multiple load break switches that ensure safe on-load opening and closing of photovoltaic circuits on small and medium systems.

- Double breaking mechanism
- Contacts in series to optimize electrical characteristics
- External series links mounted in factory
- Silver alloy contacts



IP20 - Finger safe



Series links mounted in factory



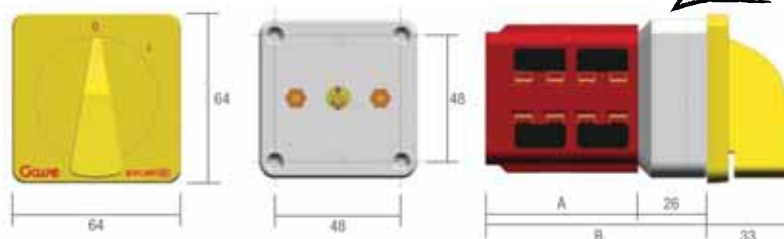
Code	Voltage	A-5342PVO	A-5362PVO	A-5382PVO	A-5102PVO
Connecting Screw	-	M5	M5	M5	M5
Standard wire (mm ²)	-	10-25	10-25	10-25	10-25
Flexible (mm ²)	-	10-16	10-16	10-16	10-16
Impulse Voltage Uimp kV	-	4	4	4	4

Current ratings @ load duty category DC - 21

	300VDC	35ADC	-	-	-
	400VDC	-	25ADC	-	-
	500VDC	-	20ADC	-	-
	600VDC	-	15ADC	25ADC	-
	800VDC	-	-	10ADC	-
	1000VDC	-	-	-	25ADC

reference	contacts	cells	A	B
A-5342PVO	2+2	2	33,0	60,0
A-5362PVO	3+3	3	45,0	72,0
A-5382PVO	4+4	4	57,0	83,0
A-5102PVO	5+5	5	69,0	95,0

values in mm.



Double breaking mechanism avoids arcing due to high speed closing or opening, independent of operator turning speed and pressure.

Accessories



Code	AK1200523	AK0100007	AK0000003	AK1740003
Description	Padlockable operating handle	DIN Rail mounting Plate	Base mounting plate	DIN Rail mounting kit with extension shaft and door interlock.

PV COMPACT ENCLOSED ISOLATORS IP65

The IS-PV Series has been designed in order to offer optimum performance with enclosed switch disconnectors that use standard MC4 connectors, creating extremely easy to install and connect solutions.

General Characteristics

- Original and compact design
- Base mounting
- Enclosure UV resistant
- Auxiliary contacts option



Padlockable Handle Available

Simple & fast plugin



Code	A-5342MC7	A-5362MC7	A-5382MC7	A-5102MC7
Description	PV switch isolator 35A @ 300VDC (MC4 included)	PV switch isolator 25A @ 400VDC/ 20A @ 500VDC (MC4 included)	PV switch isolator 25A @ 600VDC/ 16A @ 800VDC (MC4 included)	PV switch isolator 25A @ 1000VDC (MC4 included)

LIGHTING & SURGE PROTECTION

Special Surge Protection for Invertors (e.g. Wind Turbines)



Code	Class	No. of Poles	Max. Discharge 8/20µS	Up	Uc	Backup MCB	Network	DIN Width
SLP-880V/3	2	3	40kA	<3.2kV	880V	160A	TN-S/TN-C/TT	3

Photovoltaic System Protection



Code	No of Poles	Max Discharge 8/20µS	Nominal Discharge 8/20µS	Up	Uc	Uoc stc	DIN Width
SLP-170PHV/2	2	40kA	15kA	0.8kV	170VDC	170VDC	2
SLP-600 V/U	2	40kA	20kA	4.0kV	600VDC	720VDC	2
SLP-700PHV/3	3	40kA	20kA	2.4kV	350VDC	700VDC	3
SLP-1000PHV/3	3	40kA	20kA	3.6kV	500VDC	1000VDC	3

Uoc stc refers to the maximum voltage of the photovoltaic panel

GPV FUSE PROTECTION

Photovoltaic System Protection



Code	Class	No of Poles	I _{max} 8/20	I _n 80/20	I _{imp} 10/350	Up	Uc	DIN Width	Auxilliary
PST25PV	2	2	40kA	20kA	-	2.2kV	550VDC	2	N
PST31PV	2	3	40kA	20kA	-	3.0kV	1000VDC	3	N
PST41PV	1+2	2	-	40kA	12.5kA	1.9kV	1000VDC	3	Y

PST25/31: Surge protection devices Class II are developed to protect PV Photovoltaic networks against atmospheric lightning. These units must be installed in parallel on the DC networks to provide common and differential mode protection. The design is based on high energy MOVs equipped with specific thermal disconnectors and related failure indicators.

PST41: Surge protector devices Class I are recommended for both ends of the DC power supply line. Due to their extraordinarily high discharge capacity, they are recommended for use on installations with elevated risk of direct lightning strikes. The protection is based on high energy MOVs and specific thermal disconnectors achieving a superior protection level and a lack of follow-up current.

GPV FUSE PROTECTION

A range of fuse links in a 10 x 38mm packaging specifically designed for protection and isolation of photovoltaic strings.

The fuse links are capable of interrupting low overcurrents associated with faulted PV string arrays.

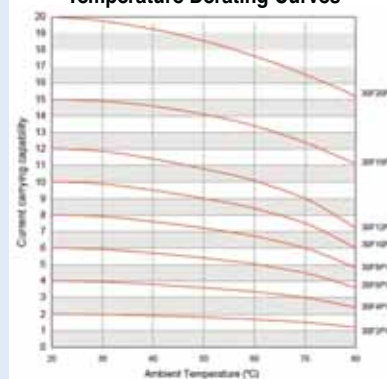
General Characteristics

- Rated Voltage: 1000Vdc
- Time constant (L/R): under 1ms
- Rated breaking capacity: 33kA (VDC)
- Minimum interrupting rating 1.3 x I_n



Code	Current Rating	Power Loss	
		0.8I _n	I _n
30F6PV	6A	1.1W	1.8W
30F8PV	8A	1.2W	2.1W
30F10PV	10A	1.3W	2.3W
30F12PV	12A	1.5W	2.7W
30F15PV	15A	1.7W	2.9W
30F20PV	20A	2.1W	3.6W

Temperature Derating Curves



DC FUSEHOLDERS

10x38 Fuse Holders for DC Applications



Code	Thermal Rating	Fuse Size	Poles	DIN Modules
211PV	32A	10 x 38	1 pole	1

Accessories

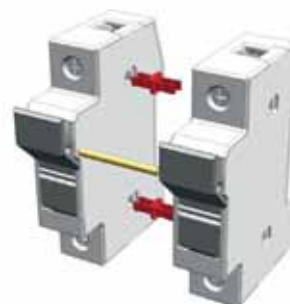
Code	Description
21KE	Multipole assembly kits

According To

- IEC 60947-1
- IEC 60947-3

Characteristics

- 1000VDC - DC-20B
- Mounting 35mm DIN rail
- High temperature resistant plastics
- Elevated insulation characteristics



For multipole fuse holders use multipole assembly kits - 21KE

PV JUNCTION BOXES

Make your solar installation more cost effective by reducing the wiring, improve reliability and reduce maintenance.

Characteristics:

- Equipped with PV dedicated surge arrestor
- With function or arrestor failure alarm
- Adaptable to various communication modules: **RS-485**.
- Wireless communication available ex-indent.



Code	PVJ-BOX16
PV Array input voltage	<1000V
PV Array Input string no.	16
Maximum current of each string	10A
Protection level	IP65
Ambient temperature	-25°~+55°C
Relative humidity	<95%
Communication mode	RS-485, RS-232

Note: Includes DIN mount 24VDC 1.25A Power Supply

SOLAR MODULE ANALYSER



Code	PROVA200	PROVA300XP
Description	Analyser	Printer
• Voltage range: 0-60VDC		• Maximum current (Imaxp) at Pmax
• Current range: 0-6A		• Voltage at open circuit (Vopen)
• I-V Curve test for solar cell		• Current at short circuit
• Maximum solar power (Pmax) search by Auto-scan (60V, 6A)		• Calculation of efficiency (%)
• Maximum voltage (Vmaxp) at Pmax		• Manual single point test

SOLAR PANEL MOUNTING SYSTEM

Pre-Assembled Brackets



Galvanised



Aluminium or Galvanised

Pre-Assembled Pole Bracket

Watts	1 Panel	2 Panel
5-10W	DM110	—
20W	DM120	—
40-60W	DM175	DM275

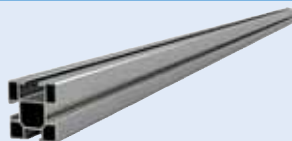
Pre-Assembled Triangle Bracket

Watts	1 Panel	2 Panel
60-120W	BMF4301	—
170-270W	—	DR275

Bracing Bar

Code	Description
BMF4302	4m Bar 13x6mm Alu.

Aluminium Profile - 4m



BMF4001

Profile Joint



BMF4003

Cover for gap between panels - 4m



BMF4100

Positioning Support



BMF4110


Solar Panel Clamps - (packs of 10)



End Clamp



Mid Clamp

End Code	Module Thickness	Middle Code	Module Thickness
BMF4021	34	BMF4011	34 ÷ 37
BMF4022	35	BMF4012	38 ÷ 42
BMF4023	36	BMF4013	43 ÷ 47
BMF4024	38	BMF4014	48 ÷ 50
BMF4025	40	End Caps (packs of 10)	
BMF4026	42		
BMF4027	46		
BMF4028	48		
BMF4029	50		
		BMF4008	

Clamp for Crimped Plate



BMF4501

Adjustable Tile Hook



BMF4401

Fixing Plate: 150x55x5mm

Fixing Bracket



BMF4002

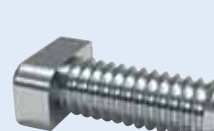
Adjustable Roof Tile Hook



BMF4402

Fixing Plate: 50x200x5mm

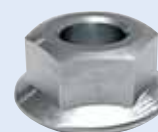
Fixing Accessories - Stainless Steel



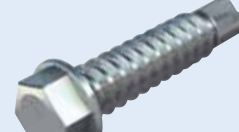
BMF4004



BMF4006



BMF4005



BMF4303

Code	Description	Pack
BMF4004	M8 x 20 Hammer-headed screws	50
BMF4006	M8 x 20 Hexagonal head screws	50
BMF4005	M8 Self-blocking flanged nut	50
BMF4303	4,8 x 32 Self-tapping hex screws	100

NEW

SOLAR MOUNTING SYSTEMS

We provide professional solutions for Solar photovoltaic mounting for residential, corporate and utility scale applications.

- Features**
- Roof Top mounting: Tile, Tin & Tilt Tin/ tiled
 - Open area: Ground mounting/ pole mounting
 - Suitable for all roof types and PV modules
 - Fast and simple installations
 - High quality material in Aluminium 6005-T5

Panel Mounting

Code	CK-FZ-F4200	CK-FZ-SK	CK-FZ-AM	CK-FZH-01
Description	Solar standard rail 4.2m	Solar standard rail splice	Adj Solar mid clamp	Solar SUS304 Tile Hook
Code	CK-FZH-013	CK-FZH-TC	CK-FZ-AE	CK-FZH-021
Description	Solar aluminium tin hook	Solar tin roof AL Clamp	Adj end clamp	Solar tin thin roof AL Clamp
Code	CK-FZA-FL	CK-TM-1530	CK-2V-3035	CK-FSC-CP1
Description	Solar Adj front leg	Solar Adj Tri structure 15-30	2V ground support 30/35 deg	Solar Cable Clips

SOLAR ROOF TILT RACKING SYSTEM

ACDC is continually developing kits to use with our panels. These kits are designed for the most rugged conditions and consist of the highest quality components.

Code	GR-AD-FL	GR-AD-FL 10/15	GR-AD-FL 15/30	GR-AD-FL 30/60
Description	Front Support	Rear Support - 10-15cm	Rear Support - 15-30cm	Rear Support - 30-60cm

* Use the following Parts Code: **CK-FZ-F4200** (Solar Panel Profile)

- Specifications**
- High class aluminium alloy Al16005-T5 & stainless steel 304
 - PV Modules: framed
 - Roof Slope: up to 60°
 - Suitable for pitched or flat roof

NEW

8 PANEL MOUNTING KITS

- Kits include:**
- Frame work & Clamps
 - Structure fixing bolts/nuts
 - Profile 4.2m
 - Suited for 170-290W

Code	CK-PM-08	CK-TL-08	CK-TN0-08	CK-ADJ-08
Description	Pole mounting kit	Tile mounting kit	Tin mounting kit	Tin tilt mounting kit
Code	CK-TNC-08	CK-GD-08	CK-UT-08	CK-V2-08
Description	Tin clamp mounting kit	Ground mounting kit	Utility Ground mounting kit	Tin tilt mounting kit

SOLAR OFF-GRID MOUNTING KITS



ACDC Dynamics provides complete off-grid mounting kits. These kits include all brackets and hardware needed to mount panels on any surface such as: walls, roofs, caravans, poles and etc.

Solar SLB series off-grid mounts. Fit for 1 Panel.

Code	SLB-0111	SLB-0112	SLB-0113	SLB-0102	SLB-0103
Module Frame	18mm	30/35mm	35mm	35mm	35mm
Mounting Holes	5.5mm x 8	3.5mm x12	4.5mm x 12	4.5mm x12	4.5mm x12
Module Power	5W	10-30W	40-135W	40-135W	40-135W
Mounting Type	Pole-Mounted	Pole-Adjustable	Wall, Vertical Surface Adjustable	Fixed Bracket	Flat Surface Adjustable

SOLAR-FLEX ADHESIVE

Solar-Flex white - 290ml

Code **WST-SAF-W**



Elastic one-component adhesive and sealant with fast development of adhesive strength.

It contains no substances that hinder the coating of laquer (eg. silicone), no solvents and no isocyanate.

Solar-Flex has a very high initial adhesive strength and also enables adhesive bonds on vertical surfaces indoors and outdoors.

For strongly stressed adhesive bonds in the following areas:

- Solar Power systems;
- Junction Boxes;
- Marking systems;
- Metalworking;
- Tank and apparatus construction;
- Ventilation and air conditioning and wherever silicone or products containing silicone are unsuitable.

Advantages:

- High initial adhesive strength on vertical surfaces;
- Broad range of adhesion, even on moist surfaces;
- Resistant to weathering and UV;
- Free of silicone, isocyanate and halogen;
- Solvent-Free, odour-free, non-corrosive;
- Sandable & can be painted over even when wet.

P3

PV CONNECTORS IP67

Features

- For connecting to panel contacts
- Durable and weather-resistant
- Modules protected by means of one or more diodes
- Temperature Range: -40°C - +90°C
- UV-Resistant
- High-quality contacts
- Material: Contact: CuSn
Casing: PC/PA



Code	Description	Cable Size
903709	PV panel box enclosure	2.5-10mm ²



PV MC4 Female Branch Connector

For secure and easy connection of PV modules in parallel.
MFF= Male/ Female/ Female Connectors

Code	Description	Pack
905228-1	PV MC4 MFF Branch	1



PV MC4 Male Branch Connector

FMM= Female/ Male/ Male Connectors

Code	Description	Pack
905229-1	PV MC4 FMM Branch	1



PV MC4 Female Coupling Connector

Code	Core Cross	Cable Ø mm	Pack
905207-1	2.5mm ²	3-6	1
905209-1	2.5mm ²	5.5-9	1
905211-1	4-6mm ²	3-6	1
904964-1	4-6mm ²	5.5-9	1



PV MC4 Male Coupling Connectors

Code	Core Cross	Cable Ø mm	Pack
905206-1	2.5mm ²	3-6	1
905208-1	2.5mm ²	5.5-9	1
905210-1	4-6mm ²	3-6	1
904963-1	4-6mm ²	5.5-9	1



PV MC4 Fly-Leads

Code	Description
SLE-1M	1m 4mm PV Cable (Black) MC Male & Female
SLE-2M	2m 4mm PV Cable (Black) MC Male & Female
SLE-5M	5m 4mm PV Cable (Black) MC Male & Female
SLE-10M	10m 4mm PV Cable (Black) MC Male & Female

1000VDC UV Resistant

SOLAR CABLE

Solar Cable (100m roll)



- Rated Voltage: 600/1000VAC 900/1500VDC
- Stranded tin-plated copper insulated with XLPE under a PVC jacket.

WIR

Code	Size mm ²	Amps
SW101	2.5mm ²	25
SW102	4mm ²	32
SW103	6mm ²	41

INSTALLATION TOOLS & ACCESSORIES

Wire Stripper	Wire Stripper	X-PRO 50mm Shears	X-PRO 50mm Shears	Maxi Grip	Solar Tool Kit
					
Code STRIP-7-SOLAR	Code STRIP-SOLARMINI	Code BM1325	Code BM1330	Code BM1311	Code PV-BOX
An automatic stripper for round cables used in PV solar and electric fence installation. Precise adjustment allows easy removal of multiple insulation layers of solar cables from 1,5-6mm ² .	<ul style="list-style-type: none"> • Stripping depth stop • Compact wire stripper designed for the solar industry • Suits 1.5-6mm² cable • Side blade cutter 	<ul style="list-style-type: none"> • Innovative new spring loaded opening action • For the easy stripping and cutting of cables • Especially designed blade for cutting of aluminium and copper cables up to a size of 50mm² 	<ul style="list-style-type: none"> • Innovative automatic opening system with spring for an effective cable stripping & cutting • Innovative design with bi-component handles guaranteeing less cutting effort & better palm hold • Blade geometry with variable edge 	<ul style="list-style-type: none"> • Wire Shears • Bi-Component handle for greater cutting force • Non-slip serrated blades • Tempered stainless steel blade • Belt clip holder 	Aluminium box with foam cushion for PV tools. All tools in storage. Solar Connector Spanner  PV-STX

SOLAR PUMPING SYSTEMS

- The system dispenses with energy storage devices, and stores water instead of electricity. It improves the reliability of the device and at the same time, it lowers the construction and maintenance costs of the system dramatically.
- Patented technology adopted for controlling, automatic running, excellent stability and 98% energy conversion ratio.
- Full protection against lightning, dry running, blocking and overload.



Application:

- Desert control
- Sea water desalinization
- Agricultural irrigation
- Daily water supply
- Forest irrigation
- Remote watering troughs for animals
- Waste water treatment



Code	KW	Description	Head (m)	Flow Water (m ³ /day)	No. of PV Panels
PS370-1	0.37KW	Solar Pumping System	27-35m	10-7.5m ³ /day	20 x 40W
PS550-1	0.55KW	Solar Pumping System	37-52m	10-7.5m ³ /day	20 x 60W
PS750-1	0.75KW	Solar Pumping System	45-61m	10-7.5m ³ /day	20 x 80W
PS1100-2	1.10KW	Solar Pumping System	54-73m	10-7.5m ³ /day	20 x 120W
PS1500-2	1.50KW	Solar Pumping System	68-91m	10-7.5m ³ /day	10 x 270W
PS2200-1	2.20KW	Solar Pumping System	91-133m	10-7.5m ³ /day	22 x 170W
PS3000-1	3.7KW	Solar Pumping System	118-169m	15-10m ³ /day	28 x 170W
PS4000-1	5.5KW	Solar Pumping System	155-207m	15-10m ³ /day	36 x 180W

Order PV Panels Separately

Inverter Only

Code	Rated Output Current	MPP Voltage
PB400L	3A	280-350V
PB750L	5A	280-350V
PB1500L	7A	280-350V
PB2200L	11A	280-350V
PB3700H	9A	500-600V
PB5500H	13A	500-600V

System incl Inverter, Pump + Cable 30m + Connections

Features:

- Solar pumping inverter converts DC voltage from the solar array into AC voltage to drive the pump.
- With the function of MPPT (maximum power point tracking), it regulates the output frequency according to irradiation in real time to achieve the maximum power.

Product Advantages:

- To drive pumps equipped with 3-phase induction motors.
- Optimized SPWM (Sinusoidal pulse width modulation).
- Various operation modes and MPPT algorithms are available.
- Option of water-level detection and control is available.
- Adjustable speed range of pump based on the actual situation (available solar power) of the system
- Protection functions: lightning, over/low input voltage, over current and overload protection, etc.

DC SUBMERSIBLE PUMPS

Features

- Floating impeller design prevents sand blockages
- Highly durable
- Can handle upthrust load

Application

- Domestic & Municipal water supply
- Irrigation
- Industrial & Mining
- Ponds & Gardens

Accessories Included

- Liquid Level Sensor
- Torch light
- Connecting cable
- Control Box
- Water level Sensor



Order PV Panels Separately

Code	Voltage	Power	Max. Flow Rate	Max. Head	Pump Size	Solar Panels
3TSS 0.5-28-12/80	12VDC	80W	0.5m³/h	28m	3"	100W x 1
3TSC 1.9-32-36/250	36VDC	200W	1.9m³/h	32m	3"	90W x 3
3TSC3.5-34-48/400	48VDC	400W	3.5m³/h	34m	3"	130W x 4
3TSC2-80-48/400	48VDC	400W	2m³/h	80m	3"	170W x 4
4TSS2.5-70-48/500	48VDC	500W	2.5m³/h	70m	4"	130W x 4
4TSS1.8-120-96/750	96VDC	750W	1.8m³/h	120m	4"	80W x 14
4TSS2.5-140-110/1000	110VDC	1000W	2.5m³/h	140m	4"	100W x 14
4TSC4-57-48/500	48VDC	500W	4.0m³/h	57m	4"	170W x 14
4TSC12.5-44-110/1000	110VDC	1000W	12.5m³/h	44m	4"	100W x 14
5TSS5-80-110/1200	110VDC	1200W	5m³/h	80m	5"	100W x 16

DC SOLAR FOUNTAIN PUMPS



Accessories

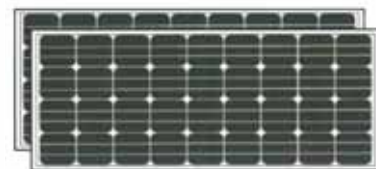
Pump Controller, Brass Impeller, Cable Connector, Water Level Sensor, Cable for Solar Panel, Solar Flash Light.

Application Area

This product is mainly used for fountain pumps, circulation or small irrigation applications.



TSQB



Order PV Panels Separately

Pump Type	Voltage	Power	Max. Flow Rate	Max. Head	I/O Size	Required PV Panels
TSQB2.0-25-24/120	24VDC	120W	2m³/h	25m	1" x 1"	80W x 2
TSSGJ3.2-18-24/120	24VDC	120W	3.2m³/h	18m	1" x 1"	80W x 2
TSQB2.2-37-36/210	36VDC	210W	2.2m³/h	37m	1" x 1"	90W x 3

DC SOLAR POOL PUMPS

Accessories

Pump Controller, Brass Impeller, Cable Connector, Water Level Sensor, Cable for Solar Panel, Solar Flash Light.

Application Area

This product is mainly used for swimming pool pumping applications.



TSSP



Order PV Panels Separately

Pump Type	Voltage	Power	Max. Flow Rate	Max. Head	I/O Size	Required PV Panels
TSSP16-15-48/500	48VDC	500W	16m³/h	15m	1.5" x 1.5"	170W x 4
TSSP18-12-72/750	72VDC	750W	18m³/h	12m	2" x 2"	80W x 14
TSSP25-15-110/1200	110VDC	1200W	25m³/h	15m	2.5" x 2.5"	100W x 16
TSSP30-20-110/1500	110VDC	1500W	30m³/h	20m	3" x 3"	100W x 16

SOLAR GEYSER



Perfect for use as stand-alone unit or as a prefeed system for a geyser.



Solcrafte Solar Hot Water Solutions

Solcrafte is a solar collector with an integrated tank. It offers various benefits such as frost protection, easy installation and aesthetic design. Quick installation saves you time and money. Solcrafte is the answer: connect it either directly to the water lines or pre-feed it into an existing geyser. Standard packaging includes a mounting kit (either on-roof @ 0° or flat roof @ 45°), a Twin Port valve and a Pressure Reducing valve.

Code	SOL 90-*	SOL 150-*	SOL 200-*
Number of collectors	1	1	1
Collector area	1.1m ²	1.8m ²	2.4m ²
Tank size in liters	90ℓ	150ℓ	200ℓ
Size (L x W x H)	2184x510x212mm	2184 x 800 x 212mm	2184x1100x212mm
Max Temp/Pressure	100°C/4 bar	100°C/4 bar	100°C/4 bar
*Mounting system 0° / 45°	Incl.	Incl.	Incl.

Accessories

Code	Description
SOL-1279	Optional screw-in heating element (2kW)
SOL-1039	Filling pump with container hose and pressure pump (for filling and bleeding the collector system)
SOL-1037/ 5	Anti-freeze concentrate 5l (Polypropylene Glycol)
SOL-1037	Anti-freeze concentrate 10l (Polypropylene Glycol)

Optional - Pool Heating Set "Complete"

Code	Description
SOL-3172	Heating kit for swimming pools of up to 30,000 lt. Kit consists of 4 collectors, SWT20 heat exchanger, circulation pump and an 18 litre expansion tank

* Mounting brackets and Anti-Freeze not included.



HEAT PUMPS

Using a small amount of energy, a heat pump simply transfers heat from one source to another in order to create hot and cold water for residential, commercial and industrial applications.

Code	SDAW025-300L	SDAW3.5-220	SDAW4.6-220	SDAW6.7-220	SDAW11.2-380
Power Supply	220V / 1Ph /50Hz	220V / 1Ph /50Hz	220V / 1Ph /50Hz	220V / 1Ph /50Hz	380V / 3Ph /50Hz
Rated Heating Capacity	2.6KW	3.5KW	5KW	7.2KW	10.5KW
Rated Power Input	0.75KW	0.9KW	1.28KW	1.79KW	2.55KW
Refrigerant	R410A	R410A	R410A	R410A	R417A
Compressor Type	Rotary	Rotary	Rotary	Rotary	Rotary
Max. Outlet Water Temp.	50°C	60°C	60°C	60°C	60°C
Noise	48dbA	52dbA	53dbA	54dbA	55dbA
COP (heating/ work done)	3,5W/W	3,89W/W	3,91W/W	4,02W/W	4,12W/W



SABS SOLAR GEYSER

High Pressure System - SABS Approved

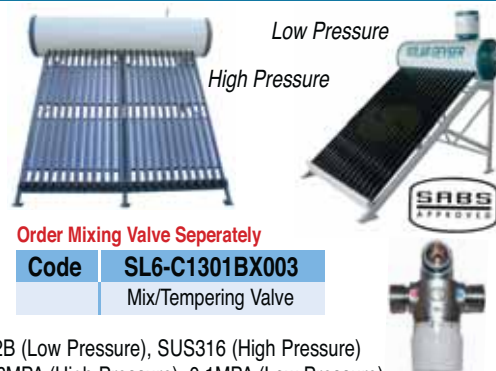
Code	Tank Length (mm)	Tank Capacity	Collector	Collector Area (m2)
ASHP-1858-15	1680	150L	15 Tubes	1.86
ASHP-1858-20	2160	200L	20 Tubes	2.49

Low Pressure System - SABS Approved

Code	Tank Length (mm)	Tank Capacity	Collector	Collector Area (m2)
SL-NF1.8-16	1225	100L	16 tubes	1.67
SL-NF1.8-18	1446	150L	18 tubes	1.88

Accessories for Low Pressure System - SABS Approved

Code	Description
SL-NF16-TUBE	Spare Glass Tube for 100L low pressure
SL-NF18-TUBE	Spare Glass Tube for 150L low pressure
SL-NF-FTANK	Spare filler tank for 100/ 150L low pressure



Order Mixing Valve Separately

Code	SL6-C1301BX003
	Mix/Tempering Valve

- Inner tank: SUS304-2B (Low Pressure), SUS316 (High Pressure)
- Working pressure: 0.6MPa (High Pressure), 0.1MPa (Low Pressure)
- Vacuum tube: 58"1800mm 2.2mm thickness with special coating to aid absorption
- Frame: Galvanized steel 1.5mm
- Insulation: 50mm of high density polyurethane foam - Heat preservation: 72hrs
- Hail resistance: 40mm

All the prices include tank, heat pipe vacuum tubes, frame, P/T valve, Air vent valve, Magnesium rod, screws & nuts and carton box only.

WIND GENERATORS



Deltatronic wind generators are the latest design in wind generating technology. Units are built for harsh environments using aluminium and stainless steel. Wind speed, vibration and generator RPM are electronically analysed and controlled. Fitted with an emergency electronic braking system. The high quality alternators fitted to the generators are manufactured exclusively for Deltatronic by Ducati energia.

Code	DTWIND-1500	DTWIND-3000
Maximum Power	1500W	3000W
Output Voltage	0-300VAC	0-300VAC
Aux. Voltage	12V x 2 (102Ah batteries)	12V x 4 (102Ah batteries)
Pure Sine Inverter	Yes	Yes
Charge Regulator	Yes	Yes
Start Speed	2.2m/sec (8km/h)	2m/sec (7.2km/h)
Run Speed	12.5m/sec (45km/h)	12.5m/sec (45km/h)
No. of Blades	3	3
Blade Dia	2.1m	3.1m
Temp Range	-20°C to +45°C	-20°C to +45°C
Wind Brake	Yes	Yes

*** Kits Includes:** All accessories except the 6m mounting pole.
Mounting pole specification available from our technical department.

Spare Parts

Code	Description	Code	Description
6061T6	Aluminium blade for DTWIND-1500/3000	DTKIT-2	Complete body assembly
DTANE	Anemometer, wind speed monitor	DTALT	Alternator (same for both models)
JACK05	DT Wind System controller	DTINV-1500	1.5kW Inverter for DTWIND-1500
DTKIT-1	Ball bearings, slipping assembly, rectifier, gas shock absorber	DTINV-3000	3.0kW Inverter for DTWIND-3000
		SY120102	12V 102Ah Battery

HYBRID WIND & SOLAR TURBINES

Q-Series are small all-weather wind turbines which produce 400-1000W. These units are small in size, easy to install, low cost, high efficiency, and could be used in a variety of geographical climate conditions.

Kit Code	Q400	Q600	Q1000
Rated Power (W)	400W	600W	1000W
Rated Voltage (VDC)	24	24	48
Rated Current (A)	16	25	41
Rotor Diameter (M)	1.5	1.6	1.8
Start-Up Wind Speed (m/s)	2.5-4	2.5-4	2.5-4
Rated Wind Speed (m/s)	9.6	10.5	13
Max. Wind Speed (m/s)	45	45	45
Wind Turbine Type	Permanent magnet synchronous generator	Permanent magnet synchronous generator	Permanent magnet synchronous generator
Yaw Mode	Mechanical	Mechanical	Mechanical
Wind Turbine Lifespan	15-20yrs	15-20yrs	15-20yrs
Blade Material		Carbon Fibre Reinforced Plastic	
Blade Quantity	3	3	3
Tower Height	6m	6m	6m
Matched Inverter Type	Sine Wave	Sine Wave	Sine Wave

Kit Includes: Sine Wave Inverter, Wind Turbine, Blades, Pole and Wind/Solar Hybrid Controller

Hybrid Charge Controller

Code	SPWS05A-24	SPWS06A-24	SPWS10A-24
Wind Turbine Max Power (W)	500W	600W	1000W
Rated Battery Voltage (V)	24V	24V	48V
Wind Turbine Max Input Current (A)	40A	40A	60A
PV Max Charge Current	10A	10A	10A
Display	LCD	LCD	LCD
Output Voltage	28V	28V	56V
Output Current	0-25A (adj)	0-25A (adj)	0-50A (adj)





LED SOLAR LIGHTS



c/w motion sensor



c/w Daylight sensor



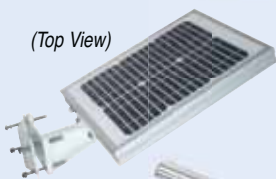
Code	RW-X12A	RW-X12B	LS48M-2	LS48M-5
Rated Power	16pcs 3528 LED	16pcs 3528 LED	2 W (Watts), 120Lm	5 W (Watts), 240Lm
Battery	3.7V, 800mAh	3.7V, 800mAh	3.7V 2000mA	7.4V 2000mA
PV Panels	1.0W Amorphous	1.0W Amorphous	2W Amorphous	5W Monocrystalline
Working time	8hrs (fully charged)	50 sec (PIR sensor)	30 sec (PIR sensor)	30 sec (PIR sensor)
Detection distance	-	2m	5-7m	5-7m
Dimensions	80H x 95W x 125D	80H x 95W x 125D	55H x 221W x 320D	55H x 221W x 320D

COMPACT SOLAR STREET LIGHTING IP65

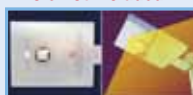
5-10W - Self-contained



(Top View)



* Pole not included



20-40W - Split Module

- Ideal for Eco Estates.
- All in one Battery and Solar panel
- Colour Temp: 6000-7000k
- Light is dim when no movement
- Low cost installation - no cabling
- PIR Sensor
- c/w Lithium battery in body
- Luminosity is increased when a person is detected by PIR Sensor



Code	LS48-5	LS48-8	LS48-10	LS48-20	LS48-30	LS48-40
Power	5W	8W	10W	20W	30W	40W
Solar Module	12W	18W	23W	70W	100W	135W
Lumen Bright Mode	410lm	680lm	810lm	1600lm	2400lm	3200lm
Lumen Dim Mode	120lm	200lm	270lm	800lm	1200lm	1600lm
Working Time	8hrs (bright) 24hrs (dim)	8hrs (bright) 24hrs (dim)	10hrs (bright) 30hrs (dim)	10hrs (bright) 30hrs (dim)	10hrs (bright) 30hrs (dim)	10hrs (bright) 30hrs (dim)
Installation Height	2.5-3m	3-4m	3-5m	5-8m	8-10m	8-10m
Dist. btwn.Poles	8-10m	10-15m	13-18m	20m	25m	25m
LUX	8.6lux @ 3m	9.4lux @ 4m	7.9lux @ 5m	9.2lux @ 20m	8.9lux @ 25m	8.9lux @ 25m
Size - LxWxD	568 x 306 x 56mm	688 x 306 x 56mm	818 x 306 x 56mm	892 x 817 x 228mm	892 x 817 x 228mm	1252 x 817 x 228mm

SOLAR GARDEN LIGHTING



Solar garden lights are self contained units for parks, complex's and housing developments.

These lights are easy to install and low to no maintenance is required.

These systems are complete kits.

- Maintenance free
- Sealed battery c/w Battery Box

Code	LM-TT011	LM-TT012
Light Led	15W	12W *2
Solar Panel	40W/18V	70W/18V
Controller	12V/5A	12V/5A
Battery	50AH/12V	80AH/12V
Pole Height	3M	3M
Battery Life	8hrs	8hrs

STREET LIGHTING

Accessories



LU56W-24VDC

SOL-10/24



BAT-BOX1

LIT

Code	Description
SOL-10/24	10A/ 24V controller
LU56W-24VDC	LED light 24VDC, cool white(5500K) 28LUX @ 8m IP65. Spigot size 60mmØ
BAT-BOX1	Battery Box for 2 x 80AH/12V batteries + solar controller Size: 560 x 410 x 250mm

This controller has an advanced light-control function with an incorporated daylight switch.

SOLAR STREET LAMPS IP65

				
	Code	SL-30W	SL-60W	SL-90W
	Light Source	12V 30W LED Lamp	24V 60W LED Lamp	24V 90W LED Lamp
	Luminous flux	2700lm	5400lm	8100lm
	Colour Temp	6500K (Daylight)	6500K (Daylight)	6500K (Daylight)
	Housing material	Tempered glass and Die-cast Aluminium	Tempered glass and Die-cast Aluminium	Tempered glass and Die-cast Aluminium
	Solar Panels	40W*2pcs Mono Crystalline	80W*2pcs Mono Crystalline	120W*2pcs Mono Crystalline
	Battery	AGM 12V 65AH	AGM 12V 65AH x 2pcs	AGM 12V 100AH x 2pcs
	Controller	12V 10A - PWM charging mode Protection against over charge/discharge, Overload & short circuit Integrated day/night switching	12V 10A - PWM charging mode Protection against over charge/discharge, Overload & short circuit Integrated day/night switching	24V 10A - PWM charging mode Protection against over charge/discharge, Overload & short circuit Integrated day/night switching
	Battery Box	PP Plastic	PP Plastic	PP Plastic
	Pole	6M, steel, hot dip galvanised	6M, steel, hot dip galvanised	6M, steel, hot dip galvanised
	Working time	8hrs per day	8hrs per day	8hrs per day
	Max endurance	3 consecutive rainy days	3 consecutive rainy days	3 consecutive rainy days

Components included:



Code	JYSL-8003-AD50	JYSL-8003-AS65	JYSL-8003-DS40	JYSL-8003-FS15
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Complete with solar panel, battery and controller.

Many different styles are available with various lighting options and battery configurations.

Please contact our sales team with your requirements for further information.

NEW

SOLAR STREET LAMPS



c/w Built-in day/night switching function





SOL

					
Code	SGL-A-3501	SGL-A-3502	SGL-A-3505	SGL-B-4001	SDGG307
Height	4m	4m	4m	4m	2.2m
Light Source	12V 9W LED Lamp	12V 9W LED Lamp	12V 9W LED Lamp	2pcs 12V 9W LED Lamp	12V 1.2W LED Lamp
Luminous Flux	550±50lm	550±50lm	550±50lm	700±70lm	80lm
Solar Panel	35W Mono Crystalline	35W Mono Crystalline	35W Mono Crystalline	40W Mono Crystalline	3.5W Mono Crystalline
Battery	12V40AH AGM Battery	12V40AH AGM Battery	12V40AH AGM Battery	12V40AH AGM Battery	3.2V 6Ah Lithium
Post	Galvanised steel with plastic spray treatment	Galvanised steel with plastic spray treatment	Galvanised steel with plastic spray treatment	Galvanised steel with plastic spray treatment	Glass Fibre reinforced plastic pole
Working Time	10hrs per day	10hrs per day	10hrs per day	10hrs per day	8hrs per day
Endurance	4 consecutive rainy days	4 consecutive rainy days	4 consecutive rainy days	4 consecutive rainy days	5 consecutive rainy days

SOLAR GARDEN LAMPS

Plastic Series

- Batteries Included
- Height does not include spike

				
Code IP44	RW-SF-03-8	RW-SF-03-2	RW-SF-02-1	RW-SF-03-4
Size (mm)	220H x 115Ø	310H x 120Ø	420H x 138Ø	200H x 115Ø
Type	1 x LED	1 x LED	1 x LED	1 x LED
Batteries:	1 x NiMh 600mAh	1 x NiMh 600mAh	1 x NiMh 600mAh	1 x NiMh 600mAh





Stainless Steel Series

- Batteries Included
- Height does not include spike

				
Code IP44	RW-SLS004	E2009	RW-SLS001	RW-SLS002
Size (mm)	260H x 115Ø	200H x 150Ø	420H x 150Ø	420H x 115 x 175
Type	1 x LED	1 x LED	1 x LED	1 x LED
Batteries	1 x NiMh 600mAh	1 x NiMh 600mAh	1 x NiMh 600mAh	1 x NiMh 600mAh

Stainless Steel Series


- Batteries Included
- Height does not include spike

			Replacement Batteries - Ni-MH  	
Code IP44	RW-SLS003	SDBX115	Type	AA (1.2V)
Size (mm)	290H x 125Ø	420H x 170Ø	Code	N1800AA (1800mAh)
Type	1 x LED	1 x LED		N2300AA (2300mAh)
Batteries	1 x NiMh 600mAh	1 x NiMh 600mAh		N2500AA (2500mAh)
				N2800AA (2800mAh)
				AAA (1.2V)
				N750AAA (750mAh)
				N800AAA (800mAh)
				N1000AAA (1000mAh)

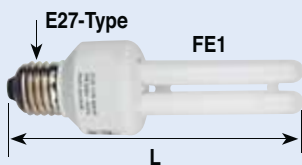
LIT

Due to our policy of continuous improvement we reserve the right of modifying specifications and appearance.

SOLAR GARDEN LIGHTS


Stainless Steel In-ground Series Batteries Included ** battery life: 3 years			Aluminium Paving Lamp 
Code IP44	RW2LED-120	RW3LED-120	RW-SLR001
Size (mm)	120Ø x 35D	120Ø x 35D	120Ø x 35D
Type	2 x white LED	3 x white LED	1 x LED
Batteries	1 x NiMh 600mA	2 x NiMh 600mA	1 x NiMh 600mA
Floating Lamps			Spot Lamps 
Code IP67	RW-SLB003	RW-SLB002	RW-SLP006
Size (mm)	120Ø	160Ø	160D x 85W x 330H
Material	Plastic	Plastic	Plastic
Type	2 x LED	2 x LED	1 x LED
Batteries	1 x NiMh 600mA	1 x NiMh 600mA	1 x NiMh 600mA
Stainless Steel In-ground Series Batteries Included ** battery life: 3 years			
Code IP44	SDDM002		SDDM002-2
Size (mm)	125 x 125		125 x 125
Type	4pcs Superbright white LED		RGB colour changing
Batteries	NiMh 600mAh		NiMh 600mAh

DC ENERGY SAVING LAMPS

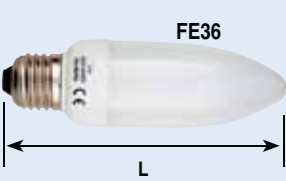


E27-Type FE1

L




FE27



FE36



L



CFI-9-E27-12VDC

L

DC Lamps 8000 Hours Life

	Code 	Watts	Length (mm)	Lumen
FE1-7-E27**	FE1-7-B22**	7W	124	238lm
FE1-9-E27**	FE1-9-B22**	9W	136	367lm
FE1-11-E27**	FE1-11-B22**	11W	146	449lm

*Supply Voltage: 12VDC, 24VDC, 48VDC

*Add “-CW” for cool white or “-WW” for warm white at end of code. eg. **FE1-7-E27-CW**

FE27-15-E27**	FE27-15-B22**	15W	139	701lm
FE27-20-E27**	FE27-20-B22**	20W	164	935lm

* Supply Voltage: 12VDC, 24VDC, 48VDC


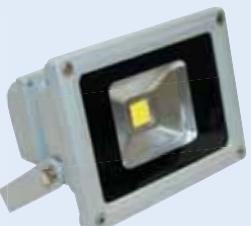
*Add “-CW” for cool white or “-WW” for warm white at end of code. eg. **FE27-15-E27-CW**

-	FE36-5-B22-WW*	5W	108	180lm
-	FE36-7-B22-WW*	7W	108	270lm
-	FE36-9-B22-WW*	9W	117	400lm
-	FE36-11-B22-WW*	11W	136	500lm

*Supply Voltage: 12VDC, 24VDC





DC Lamps 15 000 Hours Life

CFI-9-E27-12VDC	-	9W	140	367lm
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 	12VDC LED Flood Lights			
	Code	Power	Lumen	Size
	FL1-DC-*12VDC	10W	100lm/W	115 x 86 x 86
	FL3-DC-20W-*12VDC	20W	100lm/W	225 x 185 x 160
	FL3-DC-30W-*12VDC	30W	100lm/W	225 x 185 x 160
* Add colour to code: ○ CW (Cool White), ○ WW (Warm White)				

LED ROAD LIGHTING

Solar Powered Road-Side Warning Lights

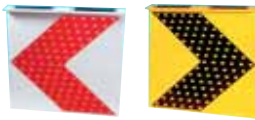

				
	Single Sided	Double Sided	Pole mount Ø 26mm	Pole mount Ø 50mm
Code	RH-4803-Y	RH-4804-Y	RH-4603-Y	H-931-Y
Battery	1.5V/1200mAh (Ni-Cd)	1.5V/1200mAh (Ni-Cd)	1.2V/1800mAh (Ni-Cd)	2V/2.5Ah (Lead-Acid)
LED qty	2 pc (8mm)	2 pc (8mm) x 2	6 (10mm)	8 x 1 (5mm)
Flash Rate	65 Flashes/min	65 Flashes/min	150 Flashes/min	120 Flashes/min
Size (mm)	326 x 163 x 29	326 x 163 x 29	Ø115 x 65 x 166	Ø386 x 100
Colour	Yellow (other colours on request)			

Solar Powered LED warning Beacons IP65

		
Code	SSL-CL9-*.*	SSL-CL9-ST
Solar Panel	5.5V/100mA Mono Crystalline Silicone	
Battery	3.6V/1400mAh	
Visibility	±600m	
Effective Light	5 Lumens (2200mcd)	
Size	109 x 90mm	
		For mounting to Traffic Cone or Traffic Pole

* Add colour to code: ● Y (Yellow), ● R (Red), ● BL (Blue), ● W (White)

** Add operating mode to code: C=Constant On, F=Flash, R=Resolve

		
Code	XHL-C6009-2-*†	XHL-C6009-1-*†
Battery	6V/ 10Ah (Lead-Acid)	6V/ 20Ah (lead-Acid)
LED qty	33 (5mm)	60 (5mm)
Flash Rate	60 Flashes/ min	60 Flashes/ min (flowing)
Size (mm)	750 x 600 x 60	1600 x 480 x 60

* Add LED colour to code: ● Y (Yellow), ● R (Red) † Add arrow direction: L (Left), R (Red)

Solar Warning Light IP67 - Size: Ø166 x 155H

Code

DWS301-*

DWS302-*

Type

Steady On

Flashing

Night Visibility

4.3km

4.3 - 6.3km

Max Power

1.1 watt

1.1 watt

Effective Light Candela (cd)

Red

5.0-7.5 cd

8.0-12.0 cd

Amber

7.5-10.0 cd

12.0-16.0 cd

Blue

3.0-4.0 cd

5.4-7.2 cd

Green

6.5-7.5 cd

10.4-12.0 cd

White

7.5-10.0 cd

12.0-16.0 cd

Battery (Nickel-Hydrogen)

5.0Ah NiH²

5.0Ah NiH²




Operating Time

120 hrs

300 hrs

*Add colour to code: ● **R** (Red), ● **A** (Amber), ● **BL** (Blue),
● **GN** (Green), ● **W** (White)

SOLAR ROAD LIGHTS

					
Code		TEA-1B02-BH	TEA-1B03*-BH	TEA-1B03C-BH	TEA-1E10A-BH
Solar cell	Power	2250mWp	350mWp	400mWp	500mWp
	Current	400mA	85mA	100mA	125mA
	Voltage	5.5V	4.0V	4.0V	4.0V
Storage component					
	Category	NiMh Battery	NiMh Battery	NiMh Battery	NiMh Battery
	Capacity	8000mAh	800mAh	1200mAh	1200mAh
	Voltage	3.6V	2.4V	2.4V	2.4V
Colour		Amber	White	White	Amber
Lighting Mode		Fast Flash ± 75/min	Steady On	Steady On	Fast Flash ± 60/min
Working Time after full charge		80h	80h	80h	30h
Size		650 x Ø98 x 240H	250L x 78H x 50D	250L x 78H x 50D	Ø103 x 150H
Average life		4 Years	4 Years	4 Years	4 Years

* Add to code: A for right LED display; B for left LED display

LINE INTERACTIVE UPS



Line-Interactive Modified Sine Wave UPS - Compact. C/W battery

Code	Watts	VA	Size (mm)	Standby Time	No. of batteries
D-650	390W	650VA	145 x 320 x 65	5-10min	1
D-800	480W	800VA	145 x 320 x 65	5-10min	1
D-1000	600W	600VA	165 x 370 x 140	5-10min	2
D-1200	720W	1200VA	165 x 370 x 140	5-10min	2
D-1500	900W	1500VA	165 x 370 x 140	5-10min	2
UPS-1700D	1200W	1700VA	165 x 370 x 140	5-10min	3
UPS-2200D	1320W	2200VA	165 x 370 x 140	5-10min	3

- Software CD (included)
- AVR Function. Auto voltage regulator
- Over charge/discharge protection.
- Overload and circuit protection.
- LCD Display.
- Full load backup time 4mins.
- Half load backup time 16mins.
- Wide input voltage range: 140-275VAC
- Output voltage: 230VAC \pm 10%.
- Spare batteries 12V/7AH SY1270



KI Series

Line-Interactive Pure Sine Wave UPS - Units have built-in battery

Code	Watts	kVA	Size (mm)	Standby Time Full Load	Standby Time Half Load	DC Voltage
KI1000	700 W	1KVA	156 x 450 x 220	6min	10min	24
KI2000	1400 W	2KVA	198 x 525 x 347	6min	10min	48
KI3000	2000 W	3 KVA	198 x 525 x 347	6min	10min	72

- Wide Input Voltage: 150-300 VAC
- Output voltage: 220/240 \pm 2%

Application

- Commercial Facility
- Data Centre
- Point of Sale
- Hub and Network device
- Computer Room
- Router

- Digital Technology
- Intelligent battery Charger
- User - Friendly LCD Display
- Reliable online interactive design
- Fully Functional Protection
- Intelligent RS232 Communication Port
- Low Battery, Overload , short-circuit and over temperature
- Wide Input Voltage: 150-300 VAC
- Output voltage: 220/240 + /- 2 %

SERVER COMPACT UPS

Online Compact Server UPS 1 phase - Without transformer. Units have built-in battery



KRJ Series

Code	Watts	kVA	Size (mm)	Standby Time Full Load	Standby Time Half Load	DC Voltage
KR1000-J	700W	1KVA	440 x 500 x 2U	6min	15min	36
KR2000-J	1400W	2KVA	440 x 500 x 2U	5min	15min	72
KR3000-J	2100W	3 KVA	440 x 500 x 2U	5min	15min	96
KR6000-J	4200W	6 KVA	440 x 600 x 3U	5min	15min	192

Application

- Rack Device
- Data Centre
- Point of Sale
- Precision Instrument
- Computer Room
- Hub and Network device
- Router
- Commercial Facility Point

For Extended Operating Time please see UPS External Battery Cabinets on Page 31

- Output isolation transformer
- Wide input voltage range
- Full protection function
- High reliability and performance
- Intelligent RS232 Communication Port
- UPS management software (optional)
- External battery bank (optional)
- SNMP adapter or USB (optional)
- Wide Input Voltage: 165-275VAC
- Output voltage: 220/240 + /- 2 %

ONLINE UPS

Pure Sine Wave UPS - Single phase 230V/230VAC. Without transformer. Units have built-in battery.



KR Series

Code	Watts	kVA	Size (mm)	Standby Time Full Load	Standby Time Half Load	DC Voltage
KR1000 LCD	700W	1 KVA	156 x 400 x 220	6 min	15min	36
KR2000 LCD	1400W	2 KVA	198 x 490 x 347	5 min	15min	72
KR3000 LCD	2100W	3 KVA	198 x 490 x 347	5 min	15min	96
KR6000 LCD	4200W	6 KVA	255 x 640 x 700	5 min	15min	192
KR1110S	7000W	10 KVA	255 x 640 x 700	5 min	15min	192

Application

- IT Device
- Telecommunication
- Industry
- Data Centre
- Commercial Facility

For Extended Operating Time please see UPS External Battery Cabinets on Page 31

- Output isolation transformer
- Wide input voltage range
- Full protection function
- High reliability and performance
- Intelligent RS232 Communication Port
- UPS management software (optional)
- External battery bank (optional)
- SNMP adapter or USB (optional)
- Wide Input Voltage: 165-275VAC
- Output voltage: 220/240 + /- 2 %

Pure Sine Wave UPS - Three Phase (IN) to Single Phase (OUT) Without transformer. Unit only uses external standby battery connection in Battery Cabinet. 400VAC 3 Phase +N/ 230VAC Single Phase.



KR31 Series

Code	Watts	kVA	Size (mm)	Standby Time	DC Voltage
KR3110	7000W	10 KVA	255 x 640 x 700	See table for UPS BCP	192
KR3115	10.5KW	15 KVA	255 x 740 x 785	See table for UPS BCP	240
KR3120	16KW	20 KVA	255 x 740 x 785	See table for UPS BCP	348

Application

- IT Device
- Telecommunication
- Industry
- Data Centre
- Commercial Facility

For Extended Operating Time please see UPS External Battery Cabinets on Page 31.

- IGBT inverter & output isolation transformer
- High reliability DSP control
- Wide input voltage range
- DC cold start function
- Full protection function
- Intelligent RS232 /RS485 Com Port
- Intelligent battery monitor system - MMBM (optional).
- Wide Input Voltage : 380 +/ -25 % VAC
- Output voltage : 220 +/ - 1 %

ONLINE UPS

Pure Sine Wave UPS - Three Phase (IN) to Three Phase (OUT) Without transformer.
Unit only uses external standby battery connection in battery cabinet.
Battery & Battery Box to be ordered separately.

Code	Watts	kVA	Size (mm)	Standby Time	DC Voltage
KR-3310	8 KW	10KVA	400 x 800 x 1180	See table for UPS BCP	348
KR-3320	16 KW	20KVA	400 x 800 x 1180	See table for UPS BCP	348
KR-3330	24 KW	30KVA	400 x 800 x 1180	See table for UPS BCP	348
KR-3340	32 KW	40KVA	500 x 800 x 1600	See table for UPS BCP	348
KR-3350	40 KW	50KVA	500 x 800 x 1600	See table for UPS BCP	348
KR-3360	48 KW	60KVA	500 x 800 x 1600	See table for UPS BCP	348

- IGBT inverter and output isolation transformer
- 3 phases UPS allow 100% unbalance load
- Full DSP control, high reliability and performance
- Wide input voltage range
- DC cold start function
- Advanced battery charging management
- Intelligent fan speed control

Pure Sine Wave UPS - Three Phase (IN) to Three Phase (OUT) With Isolation Transformer

FR-UK33080	64 KW	80KVA	1200 x 800 x 1600	See table for UPS BCP	348
FR-UK33100	80 KW	100KVA	1200 x 800 x 1600	See table for UPS BCP	348
FR-UK33120	96 KW	120KVA	1200 x 800 x 1600	See table for UPS BCP	348
FR-UK33160	128 KW	160KVA	1200 x 800 x 1600	See table for UPS BCP	348
FR-UK33200	160 KW	200KVA	1800 x 800 x 2000	See table for UPS BCP	348

- ECO mode is available
- Intelligent RS232/RS485 Communication Port
- Advanced no-master-slave parallel technology (included)
- Intelligent battery monitor system - MMBM-2 (optional)
- Wide Input Voltage: 380/400 +/-20% VAC
- Output voltage: L-N 220/230 +/-1%, L - L 380/400 +/-1%

Application

- Data Centre
- Precision Instrument
- Computer Room
- Intelligent Equipment

Extended Operating Time please see UPS BCP. For standby times, please see below

EXTERNAL BATTERY CABINET

C-Type Battery Cabinet, No Wheels

Model	Layer	Product Size	Battery Capacity	Quantity (Panasonic Size)
C-1B	1	280 x 190 x 220	24AH/17AH	2/3 PCs
C-2	1	470 x 390 x 310	17/24/38/65/100AH	10/6/4/2/2 PCs
C-6	2	420 x 450 x 600	17/24/38/65/100AH	20/16/12/6/6 PCs
C-12	3	780 x 455 x 900	17/24/38/65/100AH	30/24/12/10 PCs
C-20	4	950 x 455 x 1190	24/38/65/100AH	56/40/20/20 PCs
C-24	4	1150 x 455 x 1190	65AH/100AH	24 PCs
C-32	4	780 x 880 x 1190	65AH/100AH	32 PCs

A-Type Battery Cabinet, c/w wheels

Model	Layer	Product Size	Battery Capacity	Quantity (Panasonic Size)
BAT-A4	2	420 x 450 x 670	17/24/38/65/100AH	20/12/8/4/4 PCs
BAT-A8	2	760 x 450 x 770	17/24/38/65/100AH	36/20/16/8/8 PCs
BAT-A16	4	780 x 455 x 1360	24/38/65/100AH	32/32/16/16 PCs
BAT-A20	4	950 x 455 x 1360	24/38/65/100AH	40/40/20/20 PCs

EXTERNAL BATTERIES FOR EXTENDED BACK-UP TIME

	30 mins standby	1 hr standby	2 hr standby	4 hrs standby	8 hrs standby	UPS KVA	Series size KR-L-J	Series size KR-L	Series size KR 31-L	Series size KR 33-L
Number of Batteries	24Ahx3	38Ahx3	65Ahx3	100Ahx3	100Ahx6	1 KVA	KR1000 L-J	KR1000L-LCD	-	-
	24Ahx6	38Ahx6	65Ahx6	100Ahx6	65Ahx12	2 KVA	KR2000 L-J	KR2000L-LCD	-	-
	24Ahx8	38Ahx8	65Ahx8	100Ahx8	100Ahx16	3 KVA	KR3000 L-J	KR3000L-LCD	-	-
	24Ahx16	38Ahx16	65Ahx16	100Ahx16	100Ahx32	6 KVA	KR6000 L-J	KR6000L-LCD	-	-
	24Ahx16	65Ahx16	100Ahx16	100Ahx32	100Ahx48	10 KVA	-	KR-1110	KR3110	KR - 3310
	38Ahx29	100Ahx29	65Ahx58	100Ahx87	100Ahx80	15 KVA	-	-	KR3115	-
	65Ahx29	100Ahx20	65Ahx58	100Ahx87	100Ahx120	20 KVA	-	-	KR3120	KR - 3320
	65Ahx29	65Ahx29	100Ahx58	100Ahx87	-	30 KVA	-	-	-	KR - 3330
	100Ahx29	100Ahx58	100Ahx87	100Ahx116	-	40 KVA	-	-	-	KR - 3340
	100Ahx29	100Ahx58	100Ahx87	100Ahx116	-	50 KVA	-	-	-	KR - 3350
	65Ahx58	100Ahx87	100Ahx116	-	-	60 KVA	-	-	-	KR - 3360
	100Ahx58	100Ahx87	100Ahx116	-	-	80 KVA	-	-	-	FR-UK33080
	100Ahx87	100Ahx116	100Ahx145	-	-	100 KVA	-	-	-	FR-UK33100
	100Ahx87	100Ahx145	-	-	-	120 KVA	-	-	-	FR-UK33120
	100Ahx116	500Ahx174	-	-	-	160 KVA	-	-	-	FR-UK33160
	500Ahx174	-	-	-	-	200 KVA	-	-	-	FR-UK33200

Larger sizes available on request

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